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FIGURE 915B

ACAAAGTGAAAACAGATGAAGTGGTAACACTAACACCACGCATTGGGCCAAAAGTATCTTTAAGTCCAGGGCCTG
AACAAAAATATGAAACAGAAGGTAGTAGTACAACAGGATTTACATCATCTTTGAGTCCTTTTAGTACCCACATTA
CCCAGCTTATGGGAAGAAACCACTACTGAGAAAACATCCCTAGAGGATATTGATTTAGGCTCAGGATTATTTGAAA
AGCCCCAAGCCACAGAACTCATAGAATTTTCAACAATCAAAGTTCACAGTTCCAAGTGATATTACCACTGCCTTCA
GTTTCAGTAGACAGACTTCACACAACCTTCAGCATTCAAGCCATCTTCCGCGATCACTAAGAAACCACCTCTCATCG
ACAGGGAACCTGGTGAAGAAACAACCAGTGACATGGTAATCATTGGAGAATCAACATCTCATGTTTCTCCCACTA
CCCTTGAAGATATTGTAGCCAAGGAAACAGAAACCGATATTGATAGAGAGTATTTACGACTTCAAGTCCTCCTG
CTACACAGCCAACAAGACCACCCACTGTGGAAGACAAAGAGGCCTTTGGACCTCAGGCGCTTTCTACGCCACAGC
CCCCAGCAAGCACAAAATTTACCCCTGACATTAATGTTTATATTATTGAGGTCAGAGAAAATAAGACAGGTCGAA
TGAGTGATTTGAGTGTAATTGGCTCATCCAATAGATTGAGAATCTAAAGAAGATGAACCTTGAGTGGAAGAAACAG
ATCCAGTGCAATGATCTAATGGCTGAAATTTTACCTGAATTCCTGACATAATTGAAATAGACCTATACCACAGTG
AAGAAAATGAAGAAGAAGAAGAGTGTGCAATGCTACTGATGTGACAACCACCCCATCTGTGCAGTACATAA
ATGGGAAGCATCTCGTTACCACTGTGCCCAAGGACCCAGAAGCTGCAGAAGCTAGGCGTGGCCAGTTTGAAAGTG
TTGCACCTTCTCAGAATTTCTCGGACAGCTCTGAAAGTGATACTCATCCATTTGTAATAGCCAAAACGGAATTTGT
CTACTGCTGTGCAACCTAATGAATCTACAGAAACAACCTGAGTCTCTTGAAGTTACATGGAAGCCTGAGACTTACC
CTGAAACATCAGAACATTTTTCAGGTGGTGAGCCTGATGTTTTCCCCACAGTCCCATTCATGAGGAATTTGAAA
GTGGAACAGCCAAAAAAGGGGCAGAATCAGTCACAGAGAGAGATACTGAAGTTGGTCATCAGGCACATGAACATA
CTGAACCTGTATCTCTGTTTCTGAAGAGTCTTCAGGAGAGATTGCCATTGACCAAGAATCTCAGAAAATAGCCT
TTGCAAGGGCTACAGAAGTAACATTTGGTGAAGAGGTAGAAAAAAGTACTTCTGTACATACTCCCACTATAG
TTCCAAGTTCTGCATCAGCATATGTTTCAGAGGAAGAAGCAGTTACCCTAATAGGAAATCCTTGGCCAGATGACC
TGTTGTCTACCAAAGAAAGCTGGGTAGAAGCAACTCCTAGACAAGTTGTAGAGCTCTCAGGGAGTTCTTCGATTC
CAATTACAGAAGGCTCTGGAGAAGCAGAAGAAGATGAAGATACAATGTTTACCATGGTAACCTGATTTATCACAGA
GAAATACTACTGATACACTCATTACTTTAGACACTAGCAGGATAATCACAGAAAGCTTTTTTGAAGTTCTCTGCAA
CCACCATTTATCCAGTTTCTGAACAACCTTCTGCAAAAAGTGGTGCCTACCAAGTTTGTAAAGTGAAACAGACACTT
CTGAGTGGATTTCCAGTACCCTGTTGAGGAAAAAGAAAAGGAAGGAGGAGGGAAGTACAGGTACGGCTTCTA
CATTGAGGTATATTCTATCTACACAGAGATCGGATCAATTAATTTTACCCTTTGAATTAGAAAGTCCAAATGTAG
CTACATCTAGTGATTTCAGGTACCAGGAAAAGTTTTATGTCTTGACAACACCAACACAGTCTGAAAAGGGAAATGA
CAGATTCTACTCTGTCTTTACAGAAACAAATACATTAGAAAATTTGGGGGCACAGACCCTGAGCACAGCAGTA
TCCATCAACCTGGGGTTCAGGAAGGGCTGACCCTCTCCACGCTAGTCTGCTCTGCTTTATGGAGCAGGGCT
CTGGAGAAGCTGCTGCCGACCCAGAAACCACCACTGTTTCTTCATTTTATTAAACGTAGAGTATGCAATTCAG
CCGAAAAGGAAGTAGCTGGCACTTTGTCTCCGCATGTGGAACTACATTCTCCACTGAGCCAACAGGACTGGTTT
TGAGTACAGTAATGGACAGAGTAGTTGCTGAAAATATAACCCAAACATCCAGGGAAATAGTGATTTTCAGAGCGAT
TAGGAGAACCAAATTATGGGGCAGAAATAAGGGGCTTTTCCACAGGTTTCTTTGGAGGAAGATTTTCAGTGGTG
ACTTTAGAGAATACTCAACAGTGTCTCATCCCATAGCAAAAAGAAACGGTAATGATGGAAGGCTCTGGAGATG
CAGCATTTAGGGACACCCAGACTTCACCATCTACAGTACCTACTTCAGTTCACATCAGTCACATATCTGACTCAG
AAGGACCCAGTAGCACCATGGTCAGCACTTCAGCCTTCCCTGGGAAGAGTTTACATCCTCAGCTGAGGGCTCAG
GTGAGCAACTGGTCACAGTCAGCAGCTCTGTTGTTCCAGTGCTTCCAGTGCTGTGCAAAAAGTTTCTGGTACAG
CTTCTTCCATTATCGACGAAGGATTGGGAGAAGTGGGTACTGTCAATGAAATTGATAGAAGATCCACCATTTTAC
CAACAGCAGAAGTGGAAGGTACGAAAGCTCCAGTAGAGAAGGAGGAAGTAAAGGTCAGTGGCACAGTTTCAACAA
ACTTTCCCCAACTATAGAGCCAGCCAAATTATGGTCTAGGCAAGAAGTCAACCCTGTAAAGACAAGAAATTGAAA
GTGAAACAACATCAGAGGAACAAATTCAAGAAGAAAAGTCAATTTGAATCCCCTCAAACTCTCTGCAACAGAAC
AAACAATCTTTGATTCACAGACATTTACTGAAACTGAACTCAAACCACAGATTATTCTGTACTAACAACAAAGA
AAACTTACAGTGATGATAAAGAAATGAAGGAGGAAGACACTTCTTTAGTTAACATGTCTACTCCAGATCCAGATG
CAATGGCTTGGAATCTTACACAACCTCTCCCTGAAGCTACTGAAAAGTCACATTTTTTCTTAGCTACTGCATTAG
TAACTGAATCTATACCAGCTGAACATGTAGTCACAGATTCACCAATCAAAAAGGAAGAAAGTACAAAACATTTTC
CGAAAGGCATGAGACCAACAATTCAAGAGTCAGATACTGAGCTCTTATTCTCTGGACTGGGATCAGGAGAAGAAAG
TTTTACCTACTCTACCAACAGAGTCAGTGAATTTTACTGAAGTGGAACAAATCAATAACACATTATATCCCCACA
CTTCTCAAGTGGAAGTACCTCAAGTGACAAAATTGAAGACTTTAACAGAATGGAAAATGTGGCAAAAAGAAAGTTG

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FIGURE 915C

GACCACTCGTATCTCAAACAGACATCTTTGAAGGTAGTGGGTCAGTAACCAGCACAAACATTAATAGAAATTTTAA
GTGACACTGGAGCAGAAGGACCCACGGTGGCACCTCTCCCTTTCTCCACGGACATCGGACATCCTCAAAATCAGA
CTGTCCAGGTGGGCAGAAGAAATCCAGACTAGTAGACCACAAACCATAACTGAACAAGACTCTAACAAGAATTCTT
CAACAGCAGAAATTAACGAAACAACAACCTCATCTACTGATTTTCTGGCTAGAGCTTATGGTTTTGAAATGGCCA
AAGAATTTGTTACATCAGCACCAAAACCATCTGACTTGTATTATGAACCTTCTGGAGAAGGATCTGGAGAAGTGG
ATATTGTTGATTCAATTCACACTTCTGCAACTACTCAGGCAACCAGACAAGAAAGCAGCACCACATTTGTTTTCTG
ATGGGTCCCTGGAAAAACATCCTGAGGTGCCAAGCGCTAAAGCTGTTACTGCTGATGGATTCCCAACAGTTTTAG
TGATGCTGCCTCTTCATTAGAGCAGAACAAAAGCTCCCCTGATCCAACTAGCACACTGTCAAATACAGTGTCAAT
ATGAGAGGTCCACAGACGGTAGTTTTCCAAGACCGTTTTCAGGGAATTCGAGGATTCCACCTTAAAACCTAACAGAA
AAAAACCCACTGAAAATATTATCATAGACCTGGACAAAAGAGGACAAGGATTTAATATTGACAATTACAGAGAGTA
CCATCCTTGAAATCTACCTGAGCTGACATCGGATAAAAATACTATCATAGATATTGATCATACTAAACCTGTGT
ATGAAGACATTCTTGGAATGCAAACAGATATAGATACAGAGGTACCATCAGAACCACATGACAGTAATGATGAAA
GTAATGATGACAGCACTCAAGTTCAAGAGATCTATGAGGCAGCTGTCAACCTTTCTTTAACTGAGGAAACATTTG
AGGGCTCTGCTGATGTTCTGGCTAGCTACACTCAGGCAACACATGATGAATCAATGACTTATGAAGATAGAAGCC
AACTAGATCATATGGGCTTTCACCTTCACAACTGGGATCCCTGCTCCTAGCACAGAAACAGAATTAGACGTTTTAC
TTCCACGGCAACATCCCTGCCAATTCCCTCGTAAGTCTGCCACAGTTATTCCAGAGATTGAAGGAATAAAAGCTG
AAGCAAAAGCCCTGGATGACATGTTTGAATCAAGCACTTTGTCTGATGGTCAAGCTATTGCAGACCAAAGTGAAA
TAATACCAACATTGGGGCCAATTTGAAAGGACTCAGGAGGAGTATGAAGACAAAAACATGCTGGTCCCTCTTTTC
AGCCAGAATTTCTTTCAGGAGCTGAGGAGGCATTAGTAGACCATACTCCCTATCTAAGTATTGCTACTACCCACC
TTATGGATCAGAGTGTAAACAGAGGTGCCTGATGTGATGGAAGGATCCAATCCCCCATATTACACTGATACAACAT
TAGCAGTTTCAACATTTGCGAAGTTGTCTTCTCAGACACCATCATCTCCCCTCACTATCTACTCAGGCAGTGAAG
CCTCTGGACACACAGAGATCCCCCAGCCAGTGCTCTGCCAGGAATAGACGTCGGCTCATCTGTAATGTCCCCAC
AGGATTTCTTTAAGGAAATTCATGTAAATATTGAAGCAACTTTCAAACCATCAAGTGAGGAATACCTTCACATAA
CTGAGCCTCCCTCTTTATCTCCTGACACAAAATTAGAACCCTCAGAAGATGATGGTAAACCTGAGTTATTAGAAG
AAATGGAAGCTTCTCCCACAGAACTTATTGCTGTGGAAGGAAGTGAAGATTCTCCAAGATTTCCAAAACAAAACCG
ATGGTCAAGTTTCTGGAGAAGCAATCAAGATGTTTCCACCATTAAAACACCTGAGGCTGGAAGTGTATTACAA
CTGCCGATGAAATTGAATTAGAAGGTGCTACACAGTGGCCACACTCTACTTCTGCTTCTGCCACCTATGGGGTCG
AGGCAGGTGTGGTGCCTTGGCTAAGTCCACAGACTTCTGAGAGGCCACGCTTTCTTCTTCTCCAGAAATAAAC
CTGAAACTCAAGCAGCTTTAATCAGAGGGCAGGATTCCACGATAGCAGCATCAGAACAGCAAGTGGCAGCGAGAA
TTCTTGATTCCAATGATCAGGCAACAGTAAACCCCTGTGGAATTTAATACTGAGGTTGCAACACCACCATTTTCCC
TTCTGGAGACTTCTAATGAAACAGATTTTCTGATTGGCATTAAATGAAGAGTCAGTGGGAAGGCACGGCAATCTATT
TACCAGGACCTGATCGCTGCAAAATGAACCCGTGCCTTAACGGAGGCACCTGTTATCCTACTGAAACTTCCTACG
TATGCACCTGTGTGCCAGGATACAGCGGAGACCAGTGTGAACCTTGATTTTGATGAATGTCACTCTAATCCCTGTC
GTAATGGAGCCACTTGTGTTGATGGTTTTAACACATTCAGGTGCCTCTGCCTTCCAAGTTATGTTGGTGCACCTT
GTGAGCAAGATACCGAGACATGTGACTATGGCTGGCACAATTTCCAAGGGCAGTGCTACAAATACTTTGCCCATC
GACGCACATGGGATGCAGCTGAACGGGAATGCCGTCTGCAGGGTGCCCATCTCACAAGCATCCTGTCTCACGAAG
AACAAATGTTTGTAAATCGTGTGGGCCATGATTATCAGTGGATAGGCCTCAATGACAAGATGTTTGAGCATGACT
TCCGTTGGACTGATGGCAGCACACTGCAATACGAGAATTGGAGACCCAACCAGCCAGACAGCTTCTTTTCTGCTG
GAGAAGACTGTGTTGTAATCATTGTCATGAGAATGGCCAGTGGAAATGATGTTCCCTGCAATTACCATCTCACCT
ATACGTGCAAGAAAGGAACAGTTGCTTGCGGCCAGCCCCCTGTTGTAGAAAATGCCAAGACCTTTGGAAAGATGA
AACCTCGTTATGAAATCAACTCCCTGATTAGATACCACTGCAAAGATGGTTTTCAATCAACGTACCTTCCAACCTA
TCCGGTGCTTAGGAAATGGAAGATGGGCTATACCTAAAATTACCTGCATGAACCCATCTGCATACCAAAGGACTT
ATTCTATGAAATACTTTAAAATTCCTCATCAGCAAAGGACAATTCAATAAATACATCCAAACATGATCATCGTT
GGAGCCCGAGGTGGCAGGAGTCGAGGCGCTGATCCCTAAAATGGCGAACATGTGTTTTTCATCATTTTCAGCCAAAG
TCCTAACTTCCTGTGCCTTTTCTATCACCTCGAGAAGTAATTATCAGTTGGTTTTGGATTTTGGACCACCGTTCA
GTCATTTTGGGTTGCCGTGCTCCCAAAACATTTTAAATGAAAGTATTGGCATTCAAAAAGACAGCAGACAAAATG
AAAGAAAATGAGAGCAGAAAGTAAGCATTTCCAGCCTATCTAATTTCTTTAGTTTTCTATTTGCCTCCAGTGCAG
TCCATTTCTAATGTATACCAAGCCTACTGTACTATTTAAATGCTCAATTTTCAGCACCGATGGCCATGTAAATAA

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FIGURE 915D

GATGATTTAATGTTGATTTTAAATCCTGTATATAAAATAAAAAGTCACAATGAGTTTGGGCATATTTAATGATGAT
TATGGAGCCTTAGAGGTCTTTAATCATTGGTTCGGCTGCTTTTATGTAGTTTAGGCTGGAAATGGTTTCACTTGC
TCTTTGACTGTCAGCAAGACTGAAGATGGCTTTTCCTGGACAGCTAGAAAACACAAAATCTTGTAGGTCATTGCA
CCTATCTCAGCCATAGGTGCAGTTTGCTTCTACATGATGCTAAAGGCTGCGAATGGGATCCTGATGGAACTAAGG
ACTCCAATGTGGAACCTCTTCTTTGCTGCATTCTTTTTCTTCACTTACAAGAAAGGCCTGAATGGAGGACTTTTC
TGTAACCAGG

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FIGURE 916

MFINKSILWMCSTLIVTHALHKVKVGKSPVVRGSLSGKVS L PCHFS T MPTLPPSYNTSEFLRIKWSKIEVDKNG
KDLKETTVLVAQNGNIKIGQDYKGRVSVPTHPEAVGDASLTVVKLLASDAGLYRCDVMYGIEDTQDTVSLTVDGV
VFHYRAATSRYTLNFEEAAQKACLDVGAVIATPEQLFAAYEDGFEQCDAGWLADQTVRYP IRAPRVGCYGD KMGKA
GVRTYGFRRSPQETDYVYCYVDHLDGDV FHLTVPSKFTFEEAAKECENQDARLATV GELQA AWRNGFDQCDYGWLS
DASVRHPVTVARAQCGGGLLGVRTLYRFENQTGFPPPDSRFDAYCFKPKEATTIDLSILAETASPSLSKEPQMVS
DRTPPIIPLVDELFPVPTTEFPVGNIVSFEQKATVQPQAITDSLATKLPTPTGSTKKPWDMDDYSPSASGPLGKL
DISEIKEEVLQSTTGVS HYATDSWDGVVEDKQTQESVTQIEQIEVGPLVTSMEILKHIPSKEFPVTETPLVTARM
ILES KTEKKMVSTVSELVTTGHYGFTLGEEDDEDRTLT VGSDESTLIFDQIPEVITVSKTSEDTIHTHLEDLESV
SASTTVSPLIMPDNNGSSMDWEERQTSGRITEEFLGKYLSTTPFPSQHRTEIELFPYSGDKILVEGISTVIYPS
LQTEMTHRRERTETLIPEMRTDYTDEIQEEITKSPFMGKTEEEVFSGMKLSTSLSEPIHVTESVEMTKSFDFP
TLITKLSAEPTEVRDMEEDFTATPGTTKYDENITT VLLAHGTL SVEAATVSKWSWDEDNTTSKPLESTEPSASSK
LPPALLTTVGMNGKDKDIPSFTE DGADEFTLIPDSTQKQLEEVTDEDIAAHGKFTIRFQPTTSTGIAEKSTLRDS
TTEEKVPPITSTEGQVYATMEGSALGEVEDVDLSKPVSTVPQFAHTSEVEGLAFVSYSSSTQEPTTYVDS SHTIPL
SVIPKTDWGVLPVSPVSEDEV LGEPSQDILVIDQTRLEATISPETMRTTKITEGTTQEEFPWKEQTAEKPV PALS
STAWTPKEAVTPLDEQEGDGSAYTVSEDELLTGSE RVPVLETTVPVGKIDHSVSYPGAVTEHKVKTDEVVTLTPR
IGPKVSLSPGPEQKYETEGSSTTGFTSSLSPFSTHITQLMEETTTEKTSLEDIDLGSGLFEKPKATELIEFSTIK
VTVPSDITTAFFSSVDRLHTTSAFKPSSAITKKPPLIDREPGEETTS DMVIIGESTSHVPPTTLEDIVAKETETDI
DREYFTTSSPPATQPTRPPTVEDKEAFGPQALSTPQPPASTKFHPDINVYIIIEVRENKTGRMSDLSVIGHPIDSE
SKEDEPCSEETDPVHDLMAEILPEFPDIIIEIDLHSENEEEEEECANATDVTTTPSVQYINGKHLVTTVPKDP E
AAEARRGQFESVAPSQNFSDSSES DTHPFVIAKTELSTAVQPNESTETTESLEV TWKPETYPETSEHFSGGEPDV
FPTVPFH EEFESGTAKKGAESVTERDTEVGHQAHEHTEPVSLFPPEESSGEIAIDQESQKIAFARATEVTFGEEVE
KSTSVTYTPTIIVPSSASAYVSEEEAVTLIGNPWPDDLSTKESWVEATPRQVVELSGSSSIPITEGSGEAEDED
TMFTMVTDL SQRNTTDTLITLDTSR IITESFFEVPATTIYPVSEQPSAKVVPTK FVSETDTSEWISSTTVEEKKR
KEEEGTTGTASTFEVYSSTQ RSDQLILPFELES PNVATSSDSGTRKSFMSLTTP TQSEREMTDSTPVFTETNTLE
NLGAQTTEHSSIHQP GVOEGLTTLPRSPASVFMEQGSGEAAAADPETTTVSSFSLNVEYAIQAEKEVAGT LSPHVE
TTFSTEPTGLVLSTVM DRVVAENITQTSREIVISERLGEPNYGAEIRGFSTGFPLEEDFSGDFREYSTVSHPIAK
EETVMMEGSGDAAFRDTQTSPSTVPTSVHISHISDSEGPSSTMVSTSAFP

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FIGURE 917

GCTCGCGCACGGCTCCGCGGTCCCTTTTGCCTGTCCAGCCGGCCGCTGTCCCTGCTCCCTCCCTCCGTGAGTGT
CCGGGTTCCCTTCGCCCAGCTCTCCACCCCTACCCGACCCCGGCGCCCGGGCTCCCAGAGGGAAGTGCACCTTCG
GCAGAGTTGAATGAATGAAGAGAGACGCGGAGAACTCCTAAGGAGGAGATTGGACAGGCTGGACTCCCCATTGCT
TTTCTAAAAATCTTGGAACCTTGTCTTCATTGAATTACGACACTGTCCACCTTTAATTTCTCGAAAACGCTT
GTAACCTCGGCTGAAGCCATGCCTTGTGTTCAGGCGCAGTATGGGTCTCGCCTCAAGGAGCCAGCCCCGCTTCTC
AGAGCTACAGTTACCACTCTTCGGGAGAATACAGCTCCGATTTCTTAACTCCAGAGTTTGTCAAGTTTAGCATGG
ACCTCACCAACACTGAAATCACTGCCACCACTTCTCTCCCCAGCTTCAGTACCTTTATGGACAACCTACAGCACAG
GCTACGACGTCAAGCCACCTTGCTTGTACCAAATGCCCTGTCCGGACAGCAGTCCTCCATTAAAGGTAGAAGACA
TTCAGATGCACAACCTACCAGCAACACAGCCACCTGCCCCCCCAGTCTGAGGAGATGATGCCGCACTCCGGGTTCGG
TTTACTACAAGCCCTCCTCGCCCCGACGCCCACCACCCGGGCTTCAGGTGCAGCACAGCCCCATGTGGGACG
ACCCGGGATCTCTCCACAACCTCCACCAGAACTACGTGGCCACTACGCACATGATCGAGCAGAGGAAAACGCCAG
TCTCCCGCCTCTCCCTCTTCTCCTTTAAGCAATCGCCCCCTGGCACCCCGGTGTCTAGTTGCCAGATGCGCTTCG
ACGGGCCCCCTGCACGTCCCCATGAACCCGGAGCCCGCCGGCAGCCACCACGTGGTGGACGGGCAGACCTTCGCTG
TGCCCAACCCCATTCGCAAGCCCGCGTCCATGGGCTTCCCGGGCTGCAGATCGGCCACGCGTCTCAGCTGCTCG
ACACGCAGGTGCCCTCACCGCCGTGCGGGGGCTCCCCCTCCAACGAGGGGCTGTGCGCTGTGTGTGGGGACAACG
CGGCCTGCCAACACTACGGCGTGCACCTGTGAGGGCTGCAAAGGCTTCTTTAAGCGCACAGTGCAAAAAATG
CAAAATACGTGTGTTTAGCAAATAAAAACTGCCAGTGGACAAGCGTCGCCGAATCGCTGTCACTACTGCCGAT
TTCAGAAGTGCTGGCTGTTGGGATGGTCAAAGAAGTGGTTCGCACAGACAGTTTAAAAGCCGGAGAGGTGCTT
TGCCCTCGAAACCGAAGAGCCACAGGAGCCCTCTCCCCCTCGCCCCCGGTGAGTCTGATCAGTGCCCTCGTCA
GGGCCCATGTGACTCCAACCCGGCTATGACCAGCCTGGACTATTCCAGGTTCCAGGCGAACCTGACTATCAAA
TGAGTGGAGATGACACCCAGCATATCCAGCAATTCTATGATCTCCTGACTGGCTCCATGGAGATCATCCGGGGCT
GGGCAGAGAAGATCCCCTGGCTTCGCAGACCTGCCCAAAGCCGACCAAGACCTGCTTTTTGAATCAGCTTTCTTAG
AACTGTTTGTCTTCGATTAGCATACAGGTCCAACCCAGTGGAGGGTAAACTCATCTTTTGCAATGGGGTGGTCT
TGCACAGGTTGCAATGCGTTGCTGGCTTTGGGAATGGATTGATTCCATTGTTGAATTCTCCTCCAACCTTGCAGA
ATATGAACATCGACATTTCTGCCTTCTCCTGCATTGCTGCCCTGGCTATGGTCACAGAGAGACACGGGCTCAAGG
AACC CAAGAGAGTGGAAGAAGTGC AAAACAAGATTGTAAATTGTCTCAAAGACCACGTGACTTTCAACAATGGGG
GGTTGAACCGCCCCAATTATTTGTCAAACCTGTTGGGGAAGCTCCCAAGACTTCGTACCCTTTGCACACAGGGGC
TACAGCGCATTTTCTACCTGAAATTGGAAGACTTGGTGCCACCGCCAGCAATAATTGACAACTTTTCTGGACA
CTTTACCTTTCTTAAGACCTCCTCCCAAGCACTTCAAAGGAACTGGAATGATAATGGAACCTGTCAAGAGGGGGCA
AGTCACATGGGCAGAGATAGCCGTGTGAGCAGTCTCAGCTCAAGCTGCCCCCATTTCTGTAACCTCCTAGCCC
CCTTGATCCCTAAAGAAAACAAACAAACAAAAAACTGTTGCTATTTCTAACCTGCAGGCAGAACCTGAAAG
GGCATTTTGGCTCCGGGGCATCCTGGATTTAGAACATGGACTACACACAATACAGTGGTATAAACTTTTTATTCT
CAGTTTAAAAATCAGTTTGTGTTTGAAGAAGATTGCTATAAGGTATAATGGGAAATGTTTGGCCATGCTTGG
TTGTTGCAGTTCAGACAAATGTAACACACACACACATACACACACACACAGAGACACATCTTAAGGGGA
CCCACAAGTATTGCCCTTTAACAAGACTTCAAAGTTTTCTGCTGTAAAGAAAGCTGTAATATATAGTAAACTAA
ATGTTGCGTGGGTGGCATGAGTTGAAGAAGGCAAAGGCTTGTAATTTACCCAATGCAGTTTGGCTTTTTAAAT
ATTTTGTGCCTATTTATGAATAAATATTACAAATTCTAAAAGATAAGTGTGTTTGCAAAAAAAGAAAAATAAT
ACATAAAAAAGGGACAAGCATGTTGATTCTAGGTTGAAAATGTTATAGGCACTTGCTACTTCAGTAATGTCTATA
TTATATAAATAGTATTTTACAGACTATGTAGTCTGTAGATTTTATAAAGATTGGTAGTTATCTGAGCTTAAACA
TTTTCTCAATTGTAAAATAGGTGGGCACAAGTATTACACATCAGAAAATCCTGACAAAAGGGACACATAGTGTTT
GTAACACCGTCCAACATTCCCTGTTTGTAAAGTGTGTATGTACCGTTGATGTTGATAAAAAGAAAGTTTATATCT
TGATTATTTTGTGTCTAAAGCTAAACAAAACCTGCATGCAGCAGCTTTTGACTGTTTCCAGAGTGCTTATAATA
TACATAACTCCCTGGAAATAACTGAGCACTTTGAATTTTTTTTTATGTCTAAAATTGTGAGTTAATTTATTATTT
GTTTGAGTAAGAATTTTAAATATTGCCATATTCTGTAGTATTTTCTTTGTATATTTCTAGTATGGCACATGATAT
GAGTCACTGCCTTTTTTCTATGGTGTATGACAGTTAGAGATGCTGATTTTTTTCTGATAAATCTTTCTTTGA
GAAAGACAATTTTAAATGTTTACAACAATAAACCATGTAAATGAAAAAAAAA

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FIGURE 918

MPCVQAQYGSSPQGASPASQSYSHSSGEYSSDFLTPEFVKFSMDLTNTEITATTSLPSFSTFMDNYSTGYDVKP
PCLYQMPLSGQQSSIKVEDIQMHNYQQHSHLPPQSEEMMPHSGSVYYKPSSPPTPTTPGFQVQHSPMWDDPGSLH
NFHQNYVATTHMIEQRKTPVSRLSLFSFKQSPPGTPVSSCQMRFDGPLHVPMNPEPAGSHHVVDGQTFVAVPNPIR
KPASMGFPGLQIGHASQLLDTQVPSPPSRGSPSNEGLCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNAKYVCL
ANKNCPVDKRRRNRCQYCRFQKCLAVGMVKEVVRTDSLKGRRGRLEPKPKSPQEPSPSPSPVSLISALVRAHVDS
NPAMTSLDYSRFQANPDYQMSGDDTQHIQQFYDLLTGSMEIIRGWAEEKIPGFADLPKADQDLLFESAFLELFVLR
LAYRSNPVEGKLIFCNGVVLHRLQCVRGFGGEWIDSIVEFSSNLQNMNIDISAFSCIAALAMVTERHGLKEPKRVE
ELQNKIVNCLKDHVTFNNGGLNRPNYLSKLLGKLPELRTLCTQGLQRIFYLKLEDLVPPPAIIDKLFLDTLPF

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FIGURE 919A

CGCCGCGGGAGGCGGACGAGATGCGAGCGCGGCCGCGCCCCGCGCTCTGGGCGACTGTGCTGGCGCTGGGGG
CGCTGGCGGGCGTTGGCGTAGGAGGGCCCAACATCTGTACCACGCGAGGTGTGAGCTCCTGCCAGCAGTGCCTGG
CTGTGAGCCCCATGTGTGCCTGGTGCTCTGATGAGGCCCTGCCTCTGGGCTCACCTCGCTGTGACCTGAAGGAGA
ATCTGCTGAAGGATAACTGTGCCCCAGAATCCATCGAGTTCCCAGTGAGTGAGGCCCCGAGTACTAGAGGACAGGC
CCCTCAGCGACAAGGGCTCTGGAGACAGCTCCCAGGTCACTCAAGTCAGTCCCCAGAGGATTGCACTCCGGCTCC
GGCCAGATGATTGGAAGAATTTCTCCATCCAAGTGCGGCAGGTGGAGGATTACCCTGTGGACATCTACTACTTGA
TGGACCTGTCTTACTCCATGAAGGATGATCTGTGGAGCATCCAGAACCTGGGTACCAAGCTGGCCACCCAGATGC
GAAAGCTCACCAGTAACCTGCGGATTGGCTTCGGGGCATTGTGTGGACAAGCCTGTGTCAACATACATGTATATCT
CCCCACCAGAGGCCCTCGAAAACCCCTGCTATGATATGAAGACCACCTGCTTGCCCATGTTTGGCTACAAACACG
TGCTGACGCTAACTGACCAGGTGACCCGCTTCAATGAGGAAGTGAAGAAGCAGAGTGTGTACGGAACCGAGATG
CCCCAGAGGGTGGCTTTGATGCCATCATGCAGGCTACAGTCTGTGATGAAAAGATTGGCTGGAGGAATGATGCAT
CCCATTGCTGGTGTTTACCACTGATGCCAAGACTCATATAGCATTGGACGGAAGGCTGGCAGGCATTGTCCAGC
CTAATGACGGGCAGTGTCATGTTGGTAGTGACAATCATTACTCTGCCTCCACTACCATGGATTATCCCTCTTTGG
GGCTGATGACTGAGAAGCTATCCAGAAAACATCAATTTGATCTTTGCAGTGACTGAAAATGTAGTCAATCTCT
ATCAGAACTATAGTGAGCTCATCCCAGGGACCACAGTTGGGGTTCTGTCCATGGATTCCAGCAATGTCTCTCCAGC
TCATTGTTGATGCTTATGGGAAAATCCGTTCTAAAGTAGAGCTGGAAGTGCGTGACCTCCCTGAAGAGTTGTCTC
TATCCTTCAATGCCACCTGCCTCAACAATGAGGTCACTCCCTGGCCTCAAGTCTTGTATGGGACTCAAGATTGGAG
ACACGGTGAGCTTCAGCATTGAGGCCAAGGTGCGAGGCTGTCCCCAGGAGAAGGAGAAGTCCTTTACCATAAAGC
CCGTGGGCTTCAAGGACAGCCTGATCGTCCAGGTACCTTTGATTGTGACTGTGCCTGCCAGGCCCAAGCTGAAC
CTAATAGCCATCGCTGCAACAATGGCAATGGGACCTTTGAGTGTGGGGTATGCCGTTGTGGGCCTGGCTGGCTGG
GATCCCAGTGAGTGCTCAGAGGAGGACTATCGCCCTTCCAGCAGGACGAGTGCAGCCCCGAGAGGGTACAGC
CCGTCTGCAGCCAGCGGGGCGAGTGCTCTGTGGTCAATGTGTCTGCCACAGCAGTGACTTTGGCAAGATCACGG
GCAAGTACTGCGAGTGTGACGACTTCTCCTGTGTCCGCTACAAGGGGGAGATGTGCTCAGGCCATGGCCAGTGCA
GCTGTGGGGACTGCCTGTGTGACTCCGACTGGACCGGCTACTACTGCAACTGTACCACGCGTACTGACACCTGCA
TGTCCAGCAATGGGCTGCTGTGTCAGCGCCGCGGCAAGTGTGAATGTGGCAGCTGTGTCTGTATCCAGCCGGGCT
CCTATGGGGACACCTGTGAGAAGTGCCCCACCTGCCAGATGCCTGCACCTTTAAGAAAGAATGTGTGGAGTGTA
AGAAGTTTGACCGGGGAGCCCTACATGACGAAAATACCTGCAACCGTTACTGCCGTGACGAGATTGAGTCAGTGA
AAGAGCTTAAGGACACTGGCAAGGATGCAGTGAATTGTACCTATAAGAATGAGGATGACTGTGTCTGTCAGATTCC
AGTACTATGAAGATTCTAGTGGAAGTCCATCCTGTATGTGGTAGAAGAGCCAGAGTGTCCCAAGGGCCCTGACA
TCCTGGTGGTCTCTGCTCTCAGTGATGGGGGCCATTCTGCTCATTGGCCTTGCCGCCCTGCTCATCTGGAACCTCC
TCATCACCATCCACGACCGAAAAGAATTTCGCTAAATTTGAGGAAGAAGCGCCAGAGCAAAATGGGACACAGCCA
ACAACCCACTGTATAAAGAGGGCCACGTCTACCTTCACCAATATCACGTACCGGGGCACTTAATGATAAGCAGTCA
TCCTCAGATCATTATCAGCCTGTGCCACGATTGCAGGAGTCCCTGCCATCATGTTTACAGAGGACAGTATTTGTG
GGGAGGGATTTGGGGCTCAGAGTGGGGTAGGTTGGGAGAATGTCAGTATGTGGAAGTGTGGGTCTGTGTGTGTGT
ATGTGGGGGTCTGTGTGTTTATGTGTGTGTGTGTGTGTGGGAGTGTGTAATTTAAATTTGTGATGTGTCTCTGAT
AAGCTGAGCTCCTTAGCCTTTGTCCCAGAATGCCTCCTGCAGGGATTCTTCCTGCTTAGCTTGAGGGTGACTATG
GAGCTGAGCAGGTGTTCTTCATTACCTCAGTGAGAAGCCAGCTTTCCTCATCAGGCCATTGTCCCTGAAGAGAAG
GGCAGGGCTGAGGCCTCTCATTCCAGAGGAAGGGACACCAAGCCTTGCTCTACCCTGAGTTCATAAATTTATGG
TTCTCAGGCCTGACTCTCAGCAGCTATGGTAGGAAGTGTGGGCTTGCCAGCCCGGGTCATCTGTACCTCTGCCT
CCTTTCCCCTCCCTCAGGCCGAAGGAGGAGTCAGGGAGAGCTGAACATTTAGAGCTGCCTGTGCCTTTTGCCATC
CCCTCAACCCAGCTATGGTTCTCTCGCAAGGGGAAGTCTTGCAAGCTAATTTCTTTGACCTGTTGGGAGTGAGGAT
GTCTGGGCCACTCAGGGGTCAATTCATGGCCTGGGGGATGTACCAGCATCTCCAGTTCATAATCACAAACCTTCA
GATTTGCCCTTATTGGCAGCTCTACTCTGGAGGTTTGTTTAGAAGAAGTGTGTACCCCTTAGGCCAGCACCATCTC
TTTACCTCCTAATTCACACCCCTCACTGCTGTAGACATTTGCTATGAGCTGGGGATGTCTCTCATGACCAATGC
TTTTCTCAAAGGGAGAGAGTGTATTGTAGAGCCAGAGGTCTGGCCCTATGCTTCCGGCCTCCTGTCCCTCATC
CATAGCACCTCCACATACCTGGCCCTGAGCCTTGGTGTGCTGTATCCATCCATGGGGCTGATTGTATTTACCTTC
TACCTCTTGGCTGCCTTGTGAAGGAATTATTCCCATGAGTTGGCTGGGAATAAGTGCCAGGATGGAATGATGGGT
CAGTTGTATCAGCACGTGTGGCCTGTTCTCTATGGGTTGGACAACCTCATTTTAACTCAGTCTTTAATCTGAGA

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FIGURE 919B

GGCCACAGTGCAATTTTATTTTATTTTCTCATGATGAGGTTTTCTTAACTTAAAAGAACATGTATATAAACATG
CTTGCAATTATATTTGTAAATTTATGTGATGGCAAAGAAGGAGAGCATAGGAAACCACACAGACTTGGGCAGGGTA
CAGACACTCCCACTTGGCATCATTCACAGCAAGTCACTGGCCAGTGGCTGGATCTGTGAGGGGCTCTCTCATGAT
AGAAGGCTATGGGGATAGATGTGTGGACACATTGGACCTTTCCTGAGGAAGAGGGACTGTTCTTTTGTCCCAGAA
AAGCAGTGGCTCCATTGGTGTGACATACATCCAACATTTAAAGCCACCCCCAAATGCCCAAGAAAAAAGAAAG
ACTTATCAACATTTGTTCCATGAGCAGAAAACCTGGAGCTCTGGCCTCAGTGTTACAGCTAAATAATCTTTAATTA
AGGCAAGTCACTTTCTTCTTCTTAAAGCTGTTTTCTAGTTTGAGAAATGATGGGATTTTAGCAGCCAGTCTTGAA
GGTCTCTTTTCAGTATCAACATTCCTAAGATGCTGGGACTTACTGTGTTCATCAAAATGTGCGGTTAAGATTCTCTGGG
ATATTGATACTGTTTGTGTTTTAGTTGGGAGATCTGAGAGACCTGGCTTTGGCAAGAGCAGATGTCATTCCATA
TCACCTTTCTCAATGAAAGTCTCATTCTATCCTCTCTCCAAACCCGTTTTCCAACATTTGTTAATAGTTACGTCT
CTCCTGATGTAGCACTTAAGCTTCATTTAGTTATTATTTCTTTCTTCACTTTGCACACATTTGCATCCACATATT
AGGGAAGAGGAATCCATAAGTAGCTGAAATATCTATTCTGTATTATTGTGTTAACATTGAGAATAAGCCTTGGA
TTAGATATGGGGCAATGACTGAGCCCTGTCTCACCCTATGGATTACTCCTTACTGTAGGGAATGGCAGTATGGTAG
AGGGATAAATAGGGGGCGGGGAGGGATAGTCATGGATCCAAGAAGTCCTTAGAAATAGTGGCAGGGAACAGGTGT
GGAAGCTCATGCCTGTAATTATAACCTTCAGCTACTAAGACAGGTGTGGTGGCTCACGCCTGTGATTATAATCTT
CAGTTACTAAGACAGAGTCCATGAGAGTGTTAATGGGACATTTTCTTTAGATAAGATGTTTTATATGAAGAACT
GTATCAAAGGGGGAAGAAAATGTATTTAACAGGTGAATCAAATCAGGAATCTTGTCTGAGCTACTGGAATGAAGT
TCACAGGTCTTGAAGACCAATATTATTTGTCAATATGTGGGGATAACCTGTAGCTGCATTCATGAGGTAGCAAAT
AGCAGTTTTGGCCTGTGGGGTGAACAGCTAAACAGTGTTCTGGCATCAGATAACACGGCACAAAGGGATTGTGTC
TAGCTCTTTTGGAGAAAATTTATGTCCAGTCTCAGGATCTGTGGACAATAACGGAAAACTTTGAATATTCCTGAC
AAGTTGCCATATTAGGAGTCAGTTCTTTACTTCTCTGAGATTCCCAGGTCATCCATGATTTTTTTTTTAATTGA
GACAAAG

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FIGURE 920

PREADEMRARPRPRPLWATVLALGALAGVGVGPNICTTRGVSSCQQCLAVSPMCAWCSDEALPLGSPRCDLKEN
LLKDNCAPESEIEFPVSEARVLEDRPLSDKSGDSSQVTQVSPQRIALRLRPDDSKNFSIQVRQVEDYPVDIYYLM
DLSYSMKDDLWSIQNLGTKLATQMRKLTSLNRIGFGAFVDKPVSPYMYISPPEALENPCYDMKTTCLPMFGYKHV
LTLTDQVTRFNEEVKKQSVSRNRDAPEGGFDAIMQATVCDEKIGWRNDASHLLVFTTDAKTHIALDGRLAGIVQP
NDGQCHVGSDNHYSASTTMDYPSLGLMTEKLSQKNINLIFAVTENVVNLYQNYSELIPGTTVGVLSDSSNVLQL
IVDAYGKIRSKVELEVRLPEELSLSFNATCLNNEVIPGLKSCMGLKIGDTVFSFSIEAKVRGCPQEKEKSFTIKP
VGFKDSLIVQVTFDCDCACQAQAEPNSHRCNNGNGTFECGVCRCGPGWLGSQCECSEEDYRPSQQDECSREGQP
VCSQRGECLCGQCVCHSSDFGKITGKYCECDDFSCVRYKGEMCSGHGQCSCGDCLCDSDWTGYCNCCTTRDTTCM
SSNGLLCSGRGKCECGSCVCIQPGSYGDTCEKCPTCPDACTFKKECVECKKFDRGALHDENTCNRYCRDEIESVK
ELKDTGKDAVNCTYKNEDDCVVRFQYYEDSSGKSILYVVEEPEC PKGPDILVVLLSVMGAILLIGLAALLIWKLL
ITIHDRKEFAKFEEERARAKWDTANNPLYKEATSTFTNITYRGT

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FIGURE 921A

GCGGGAGGCGGACGAGATGCGAGCGCGGCCGCGGCCCGGCCGCTCTGGGCGACTGTGCTGGCGCTGGGGGCGCT
GGCGGGCGTTGGCGTAGGAGGGCCCAACATCTGTACCACGCGAGGTGTGAGCTCCTGCCAGCAGTGCCTGGCTGT
GAGCCCCATGTGTGCTTGGTGTCTGTATGAGGCCCTGCCTCTGGGCTCACCTCGCTGTGACCTGAAGGAGAATCT
GCTGAAGGATAACTGTGCCCCAGAATCCATCGAGTTCCCAGTGAGTGAGGCCCGAGTACTAGAGGACAGGCCCCCT
CAGCGACAAGGGCTCTGGAGACAGCTCCCAGGTCACTCAAGTCAGTCCCCAGAGGATTGCACTCCGGCTCCGGCC
AGATGATTTCGAAGAATTTCTCCATCCAAGTGCGGCAGGTGGAGGATTACCTGTGGACATCTACTACTTGTATGGA
CCTGTCTTACTCCATGAAGGATGATCTGTGGAGCATCCAGAACCTGGGTACCAAGCTGGCCACCCAGATGCGAAA
GCTCACCAGTAACCTGCGGATTGGCTTCGGGGCATTGTGTGGACAAGCCTGTGTACCATACATGTATATCTCCCC
ACCAGAGGCCCTCGAAAACCCCTGCTATGATATGAAGACCACCTGCTTGCCCATGTTTGGCTACAAACACGTGCT
GACGCTAACTGACCAGGTGACCCGCTTCAATGAGGAAGTGAAGAAGCAGAGTGTGTACGGAACCGAGATGCCCC
AGAGGGTGGCTTTGATGCCATCATGCAGGCTACAGTCTGTGATGAAAAGATTGGCTGGAGGAATGATGCATCCCA
CTTGCTGGTGTTTACCACTGATGCCAAGACTCATATAGCATTGGACGGAAGGCTGGCAGGCATTGTCCAGCCTAA
TGACGGGCAGTGTCTGTTGGTAGTGACAATCATTACTCTGCCTCCACTACCATGGATTATCCCTCTTTGGGGCT
GATGACTGAGAAGCTATCCAGAAAACATCAATTTGATCTTTGCAGTGACTGAAAATGTAGTCAATCTCTATCA
GAACTATAGTGAGCTCATCCCAGGGACCACAGTTGGGGTTCTGTCCATGGATTCCAGCAATGTCTCTCCAGCTCAT
TGTTGATGCTTATGGGAAAATCCGTTCTAAAGTAGAGCTGGAAGTGCGTGACCTCCCTGAAGAGTTGTCTCTATC
CTTCAATGCCACCTGCCTCAACAATGAGGTCACTCCCTGGCCTCAAGTCTTGTATGGGACTCAAGATTGGAGACAC
GGTGAGCTTCAGCATTGAGGCCAAGGTGCGAGGCTGTCCCCAGGAGAAGGAGAAGTCCTTTACCATAAAGCCCGT
GGGCTTCAAGGACAGCCTGATCGTCCAGGTACCTTTGATTGTGACTGTGCCTGCCAGGCCCAAGCTGAACCTAA
TAGCCATCGCTGCAACAATGGCAATGGGACCTTTGAGTGTGGGGTATGCCGTTGTGGGCCTGGCTGGCTGGGATC
CCAGTGTGAGTGCTCAGAGGAGGACTATCGCCCTTCCAGCAGGACGAATGCAGCCCCCGGGAGGGTCCAGCCCGT
CTGCAGCCAGCGGGGCGAGTGCCCTCTGTGGTCAATGTGTCTGCCACAGCAGTGACTTTGGCAAGATCACGGGCAA
GTACTGCGAGTGTGACGACTTCTCCTGTGTCCGCTACAAGGGGGGAGATGTGCTCAGGCCATGGCCAGTGACGCTG
TGGGGACTGCCTGTGTGACTCCGACTGGACCGGCTACTACTGCAACTGTACCACGCGTACTGACACCTGCATGTC
CAGCAATGGGCTGCTGTGCAGCGGCCGCGGCAAGTGTGAATGTGGCAGCTGTGTCTGTATCCAGCCGGGCTCCTA
TGGGGACACCTGTGAGAAGTGCCCCACCTGCCCAGATGCCTGCACCTTTAAGAAAGAATGTGTGGAGTGTAAGAA
GTTTGACCGGGAGCCCTACATGACCGAAAATACCTGCAACCGTTACTGCCGTGACGAGATTGAGTCAGTGAAAAGA
GCTTAAGGACACTGGCAAGGATGCAGTGAATTGTACCTATAAGAATGAGGATGACTGTGTCTGTCAGATTCCAGTA
CTATGAAGATTCTAGTGGAAGTCCATCCTGTATGTGGTAGAAGAGCCAGAGTGTCCCAAGGGCCCTGACATCCT
GGTGGTCTCTGCTCTCAGTGATGGGGGCCATTCTGCTCATTGGCCTTGCCGCCCTGCTCATCTGGAAACTCCTCAT
CACCATCCACGACCGAAAAGAATTGCTAAATTTGAGGAAGAACGCGCCAGAGCAAAATGGGACACAGCCAACAA
CCCACTGTATAAAGAGGCCACGTCTACCTTACCAATATCACGTACCGGGGCACTTAATGATAAGCAGTCATCCT
CAGATCATTATCAGCCTGTGCCACGATTGCAGGAGTCCCTGCCATCATGTTTACAGAGGACAGTATTTGTGGGGA
GGGATTTGGGGCTCAGAGTGGGGTAGGTTGGGAGAATGTCAGTATGTGGAAGTGTGGGTCTGTGTGTGTGTATGT
GGGGGTCTGTGTGTTTATGTGTGTGTGTGTGTGTGGGAGTGTGTAATTTAAAATTGTGATGTGTCTGATAAGC
TGAGCTCCTTAGCCTTTGTCCAGAATGCCTCCTGCAGGGATTCTTCTGCTTAGCTTGAGGGTGACTATGGAGC
TGAGCAGGTGTTCTTCATTACCTCAGTGAGAAGCCAGCTTTCCTCATCAGGCCATTGTCCCTGAAGAGAAGGGCA
GGGCTGAGGCCTCTCATTCCAGAGGAAGGGACACCAAGCCTTGGCTCTACCCTGAGTTTCATAAATTTATGGTTCT
CAGGCCTGACTCTCAGCAGCTATGGTAGGAAGTGTGGGCTTGGCAGCCCGGGTCATCTGTACCTCTGCCTCCTT
TCCCCCTCCCTCAGGCCGAAGGAGGAGTCAGGGAGAGCTGAACTATTAGAGCTGCCTGTGCCTTTTGCCATCCCCCT
CAACCCAGCTATGGTTCTCTCGCAAGGGAAGTCCTTGCAAGCTAATTTGACCTGTTGGGAGTGAGGATGTCT
GGGCCACTCAGGGGTCATTATGGCCTGGGGGATGTACCAGCATCTCCAGTTTCATAATCACAACCCTTCAGATT
TGCTTATTGGCAGCTCTACTCTGGAGGTTTGTGTTAGAAAGTGTGTACCCCTTAGGCCAGCACCATCTCTTTA
CCTCCTAATTCCACACCCCTCACTGCTGTAGACATTTGCTATGAGCTGGGGATGTCTCTCATGACCAATGCTTTT
CCTCAAAGGGAGAGAGTGCTATTGTAGAGCCAGAGGTCTGGCCCTATGCTTCCGGCCTCCTGTCCCTCATCCATA
GCACCTCCACATACCTGGCCCTGAGCCTTGGTGTGCTGTATCCATCCATGGGGCTGATTGTATTTACCTTCTACC
TCTTGGCTGCCTTGTGAAGGAATTATTCCCATGAGTTGGCTGGGAATAAGTGCCAGGATGGAATGATGGGGTCAGT
TGATACAGCACGTGTGGCCTGTTCTTCTATGGGTTGGACAACCTCATTTTAACTCAGTCTTTAATCTGAGAGGCC

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FIGURE 921B

ACAGTGCAATTTTATTTTATTTTCTCATGATGAGGTTTTCTTAACCTAAAAGAACATGTATATAAACATGCTTG
CATTATATTTGTAAATTTATGTGTATGGCAAAGAAGGAGAGCATAGGAAACCACACAGACTTGGGCAGGGTACAG
ACACTCCCACTTGGCATCATTCACAGCAAGTCACTGGCCAGTGGCTGGATCTGTGAGGGGCTCTCTCATGATAGA
AGGCTATGGGGATAGATGTGTGGACACATTGGACCTTTCCTGAGGAAGAGGGACTGTTCTTTGTCCCAGAAAAG
CAGTGGCTCCATTGGTGTGACATACATCCAACATTAAAAGCCACCCCAATGCCCAAGAAAAAAGAAAGACT
TATCAACATTTGTTCCATGAGG

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FIGURE 922

MRARPRPRPLWATVLALGALAGVGVGGPNICTTRGVSSCQQCLAVSPMCAWCSDEALPLGSPRCDLKENLLKDNC
APESIEFPVSEARVLEDRPLSDKSGDSSQVTQVSPQRIALRLRPDDSKNFSIQVRQVEDYPVDIYYLMDLSYSM
KDDLWSIQNLGTKLATQMRKLTSNLRIGFGAFVDKPVSPYMYISPPEALENPCYDMKTTCLPMFGYKHVLTLTDO
VTRFNEEVKKQSVSRNRDAPEGGFDAIMQATVCDEKIGWRNDASHLLVFTTDAKTHIALDGRLAGIVQPNDBGQCH
VGSDNHYSASTTMDYPSLGLMTEKLSQKNINLIFAVTENVVNLYQNYSELIPGTTVGVLSDSSNVLQLIVDAYG
KIRSKVELEVRLPEELSLSFNATCLNNEVIPGLKSCMGLKIGDTVFSFIEAKVRGCPQEKEKSFTIKPVGFKDS
LIVQVTFDCDCACQAQAEFNSHRCNNGNGTFECGVCRCGPGWLGSQCECSEEDYRPSQQDECSREGQPVCSQRG
ECLCGQCVCHSSDFGKITGKYCEDDFSCVRYKGEMCSGHGQCSCGDCLCDSDWTGYCNCCTTRTDTCMSSNGLL
CSGRGKCECGSCVCIQPGSYGDTCEKCPTCPDACTFKKECVECKKFDREPYMTENTCNRYCRDEIESVKELKDTG
KDAVNCTYKNEDDCVVRFYQYEDSSGKSILYVVEEPEC PKGPDILVVL SVMGAILLIGLAALLIWKLLITIHDR
KEFAKFEEERARAKWDTANNPLYKEATSTFTNITYRGT

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FIGURE 923

AGGGAATAAAGGCTCAGGGACCGGCAGTTCTACTCTAGAGCCCACCAGCCTCTCAGAGCCTCCGGTGACTGGCCT
GTGTCTCCCCCTGG**ATGG**GACATGTGGACGGCGCTGCTCATCCTGCAAGCCTTGTTGCTACCCTCCCTGGCTGATG
GTGCCACCCCTGCCCTGCGCTTTGTAGCCGTGGGTGACTGGGGAGGGGTCCCCAATGCCCCATTCCACACGGCCC
GGGAAATGGCCAATGCCAAGGAGATCGCTCGGACTGTGCAGATCCTGGGTGCAGACTTCATCCTGTCTCTAGGGG
ACAATTTTTTACTTCACTGGTGTGCAAGACATCAATGACAAGAGGTTCCAGGAGACCTTTGAGGACGTATTCTCTG
ACCGCTCCCTTCGCAAAGTGCCCTGGTACGTGCTAGCCGGAAACCATGACCACCTTGGCAATGTCTCTGCCCAGA
TTGCATACTCTAAGATCTCCAAGCGCTGGAACCTCCCCAGCCCTTTCTACCGCCTGCACTTCAAGATCCCACAGA
CCAATGTGTCTGTGGCCATTTTTATGCTGGACACAGTGACACTATGTGGCAACTCAGATGACTTCCTCAGCCAGC
AGCCTGAGAGGCCCCGAGACGTGAAGCTGGCCCGCACACAGCTGTCTGGCTCAAGAAACAGCTGGCGGCGGCCA
GGGAGGACTACGTGCTGGTGGCTGGCCACTACCCCGTGTGGTCCATAGCCGAGCACGGGCCTACCCACTGCCTGG
TCAAGCAGCTACGGCCACTGCTGGCCACATACGGGGTCACTGCCTACCTGTGCGGCCACGATCACAATCTGCAGT
ACCTGCAAGATGAGAATGGCGTGGGCTACGTGCTGAGTGGGGCTGGGAATTTTCATGGACCCCTCAAAGCGGCACC
AGCGCAAGGTCCCCAACGGCTATCTGCGCTTCCACTATGGGACTGAAGACTCACTGGGTGGCTTTGCCTATGTGG
AGATCAGCTCCAAAGAGATGACTGTCACCTTACATCGAGGCCTCGGGCAAGTCCCTCTTTAAGACCAGGCTGCCGA
GGCGAGCCAGGCCCC**TGA**ACTCCCATGACTGCCCAGCTCTGAGGCCCGATCTCCACTGTTGGGTGGGTGGCCTGCC
GGGACCCTGCTCACAGGCAGGCTTTTCCTCCAACCTGTGGCGCTGCAGCAGGGCAGGAAGGGGAAACACAGCTGA
TGAAGTGTGGTGCCACATGACCCTTGTGGCACAGATGCCCACGTATGTGAAACACACATGGACATGTGTCCCAGC
CACAGTGTATGCTCTGTGGCTGGCTCACCTTTGCTGAGTTCCGGGGTGCAATGGGGGAGGGAGGGAGGGAAAGC
TTCTCCTAAATCAAGCATCTTTCTGTTACTGATGTTCAATAAAAAGAATAGTTGCCAAGGCTG

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FIGURE 924

MDMWTALLILQALLLP
SLADGATPALRFVAVGDWGGVPNAPFHTAREMANAKEIARTVQILGADFILSLGDNFYF
TGVQDINDKRFQET
FEDVFSDRSLRKVPWYVL
AGNHDHLGNVSAQIAYS
KISKRWNFPSPFYRLHFKIPQTNVSV
AIFMLDTVTLCGNSDDFLSQQ
PERPRDVKLARTQLSWLKKQLAAARE
DYVLVAGHYPVWSIAEHGPTHCLVKQLR
PLLATYGV
TAYLCGHDHNLQYLQDENG
VGIVLSGAGNFMDPSKRHQ
RKVPNGYLRFHYGTEDSLGGFAYVEISSK
EMTVTYIEASGKSLFKTRLPRRARP

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FIGURE 925

CGGGCCGCCGGGACGGGCGACGGGCGCGGGGCTCCGGCGGGCGCCGGCTGCCTTCCTCCGTCGCTCGCTGTCTCT
CCCGGCCGCATTCTCCTCCGCTGCGGGGCCGAGCTCTCCCCAGCGCTCGCAGGAAGGAAGAAGGGAGCCGAGGAC
GCCGAGAAGTTCCCGCGGCAGCCGCGGATCCCGGCCAAGGCGGAGGCTGCGGCTCCGACGGGGCAGGAGCGCGAT
CCACGGCGAGGGGCGTACGGCCAAAGGGTCCGCGGCGTGAGAGCGCTCGGACCTTCGCTCTCCCCCGGGCGTGGG
CCGGGACCCCCATGAGACGCGCCACGAGGGGCGCGAGATTCTAGCTTGGGCGGCGCTAGGCGGAGGGAGGTGTT
GCAGGCCGGCCGGAGCCAGAGAGCTGCCGGCAGGAGGCGGCGGCGGCAAGAAGTTGAAGTTGGCGTCGGGAGCGG
GCGCCCCCGGAGGCCCCCGCGGGGCGGGGCGCGAGGGACCTGCGCCGACGCGCTGCCCCCGAATGGCCGCG
GCGGCGGACCGGGCTCCCGCGCCGCGGGCCCTAGGCCGCTCTCGCCATGGCCAAGTGGCTAAACAAGTACTTCAG
CTTGGGCAACAGCAAGACCAAGAGCCCCCGCAGCCGCGCGGCCAGACTACCGCGAGCAGCGGCGCCGAGGCGA
GCGGCCCTTCGACGCCCCCGAGGCCGTGCCGAGGCCCTCCTCCGCCGCTCGGCGTCTGCGGTCCGGCCACCGC
CTCCTGCTTCTCAGCCTCTTCGGGCTCGCTGCCCCGACGACAGCGGCAGCACCAGCGACCTCATCCGCGCCTACCG
CGCGCAGAAGGAGCGACACTTCCAGGACCCCTACAACGGGCGCTGGCTCGTCGCTGCGCAAAGTGCAGCGCCATGTG
CCGCTGGACTACTGCGGCGGCGAGCGGGGAGCCAGGCGGGGTCCAGCGCGCCTTCTCGGCCTCGTCCGCGTCGGG
CGCCGCGGGCTGTTGCTGCGCCTCCTCGGGCGCGGGCGCCGCGCGTCTCTGTCCTCGTCTCCTCGGCTCTCCGCA
TCTCTACCGCAGCAGCAGCGAGCGGCGGCCCGCCACGCCGCGCGAGGTGCGCTACATCTCCCCCAAGCACCAGCCT
CATCAAAGTGGAGAGCGCCGCGGGCGGTGGGGCCGGGGACCCCCCTGGGGGGCGCCTGCGCGGGCGGGCCGACCTG
GAGCCCGACGGCCTGCGGAGGCAAGAACTGCTCAACAAGTGCGCCGCTCAGCCGCGGAGGAGAGCGGGGCCGG
CAAGAAGGACAAGGTGACCATAGCCGATGACTACTCAGATCCCTTTGATGCCAAGAATGATCTCAAGAGCAAAGC
AGGAAAGGGGGAGAGTGCTGGCTACATGGAGCCCTATGAGGCACAGAGGATCATGACAGAATTTAGAGGCAGGA
AAGTGTCCGGTCCCAGCATAAAGGTATCCAGTTATATGACACCCCTTACGAACCTGAAGGCCAAAGTGTGACTC
GGACTCGGAGAGCACAGTCAGCCCCGACTGCGGGAGAGCAAGCTGCCCCAGGATGACGACAGGCCCCGCGATGA
GTACGACCAGCCTTGGGAGTGGAACCGGGTCACCAGCCCAGCCCTGGCAGCACAGTTTAATGGCAACGAGAAGCG
GCAGTCATCCCCCTCACCTTCGCGGGACCGGCGGCGCCAGCTTCGTGCCCTGGAGGGGGCTTTAAGCCTATCAA
ACATGGGAGCCCTGAGTTCTGCGGGATCCTAGGAGAAAAGGTGGATCCTGCCGTCCCCCTGGAGAAGCAAATATG
GTATCACGGAGCCATCAGCAGAGGAGACGCCGAGAACCTGCTGCGACTCTGCAAGGAGTGTAGCTACCTTGTCCG
GAACAGCCAGACCAGCAAGCATGACTACCCCCCTCTCCCTGAGGAGCAACCAGGGTTTTATGCACATGAAACTGGC
CAAAACCAAAGAGAAATACGTTCTGGGTGAGAACAGCCCTCCGTTGACAGTGTCCCGGAAGTCATCCACTACTA
CACCACCAGAAAGCTACCCATCAAAGGGGCTGAGCACTTGTCCCTCCTCTATCCCGTGGCTGTGAGGACCCCTGTG
AGCGGACAGACCTGCCCTGCTCTGTGACAGAGCCTGGAGACTTGGAGGTGCCAGAGGCCCCCACCAACCAGCC
CCCAGCCACTGTTGCTGGCTGTGTGCTTTGTGTTGTGTGTATGGTACTAGCACACCACTGCATGTCTCTAGAATG
CTGTTGCCACTTACGGGGGCTGGAGGCCTGGATAAAGACAGAAGGGCGGCAACACC

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FIGURE 926

MRRAGEGREIPSLGGARRREVLQAGRSQRAAGRRRRRQELELGVGSGRPGGPPPGPGRRGTCAAALPPEWPRRRT
GLPRRGPRPPLAMAKWLNKYFSLGNSKTKSPPQPPRPDYREQRRRGERPSQPPQAVPQASSAASASCGPATASCF
SASSGSLPDDSGSTSDLIRAYRAQKERHFQDPYNGPGSSLRKLRLAMCRLDYCGGSGEPGGVQRAFSASSASGAAG
CCCASSGAGAAASSSSSSSGSPHLYRSSERRPATPAEVRYISPKHRLIKVESAAAGGGAGDPLGGACAGGRTWSPT
ACGGKKLLNKCAASAAEESGAGKKDKVTIADDYSDPFDKNDLKSKAGKGESAGYMEPYEAQRIMTEFQRQESVR
SQHKGILQLYDTPYEPEGQSVDSDSESTVSPRLRESKLPQDDDRPADEYDQPEWENRVTSPALAAQFNGNEKRQSS
PSPSRDRRRQLRAPGGGFKPIKHGSPEFCGILGERVDPAPVPLEKQIWIYHGAI SRGDAENLLRLCKECSYLVNRSQ
TSKH DYPLSLRSNQGFMHMKLAKTKEKYVLGQNSPPFDSVPEVIHYYTTRKLP IKGAEHL SLLYPVAVRTL

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FIGURE 927

GAGTCCCGGCAGTGCGGGACTCCGGTAGCCGCCCCCTCCGGTAGCCGCCCCCTCCTCCCCCGCGCCGCCGCCCTAT
ATGTTGCCCGCCGCGGCCTCTGGGGCATGGAGCACGCTGCCAGCCCTGGCG**ATGG**CAACGGCGACGGGGGTGGC
GGAGGAGCGCCTGCTGGCCGCGCTCGCCTACCTGCAGTGCGCCGTGGGCTGCGCGGTCTTCGCGCGGAATCGTCA
GACGAACTCAGTGACGGCCGCCACGCGCTGCCAGCCACAGGCTCCGAGTGCCGGCGCGGGCCGCGCTGGGTGGT
GCAGGAGCTGCCCTCGCTGGCCCTGCCGCTCTACCAGTACGCCAGCGAGTCCGCCCCGCGTCTCCGCAGCGCGCC
CAACTGCATCCTCCTGGCCATGTTCTCGTCCACTACGGGCATCGGTGCTTAATTTACCCGTTTTCTGATGCGAGG
AGGAAAGCCTATGCCACTGTTGGCATGTACAATGGCGATTATGTTCTGTACCTGTAACGGCTATTTGCAAAGCAG
ATACTTGAGCCATTGTGCAGTGTATGCTGATGACTGGGTAACAGATCCCCGTTTTCTAATAGGTTTTGGCTTGTG
GTTAACAGGCATGTTGATAAACATCCATTGAGATCATATCCTAAGGAATCTCAGAAAACCAGGAGATACTGGATA
CAAAATACCAAGGGGAGGCTTATTTGAATACGTAAGTGCAGCCAACATATTTTGGAGAAATCATGGAGTGGTGTGG
CTATGCCCTGGCCAGCTGGTCTGTCCAAGGCGCGGCTTTTGCTTTCTTCACGTTTTGTTTTTATCTGGTAGAGC
AAAAGAGCATCATGAGTGGTACCTCCGGAAATTTGAAGAGTATCCAAAGTTCAGAAAAATTATAATTCCATTTTT
GTTTT**TAA**GTGCGTTTTTTCATGAAATTATCTTCAACTTGAAGCTTTCCAATGGCGCTTCTCTATGGACTTTGTAAA
TAAGTTATACTTTGTAATTTTCTGCTACTTTATCATTTTTCAAGATGTCCTCTAGGAATTTTTTTCTAGTAAT
TTTGCAATCTACCTAATAAGTACCTAAATACGCTGAAATGGAGGTTGAATATCCTACTGTGTAACAGGTCAGAAT
TTCAAGCTCTGGGTAATAACTGCTGATATTTTTTCTAATTTCAAATTTACCTCTTTTGGCTATGTCTTGCCAAGT
GTGTATGAGACTAGACTTTTACAAGTGTCTTTGATGGCATTTTTCAGAACAATAAATGTCACAATCCCTTCTATAGC
CCCCTACAGTGATCTCTTCAAGGTCAACTGCAGTGTTGCTTCCCTCCCCCTATAGGGCTGGAATCTGTCTAGGAG
CCCTCTCTCGGAGGCCATAGAGGCTGGGGGTAGCCATTGTGCAGTCATGGCCGGGGGAAACTTGCCAACCTTCG
TGTCAGGTGCTGTGTATAAGTGGAGAACTTGGGGATAGAGGAGGAAGCTCCTCGTGGCCCTTCCAAGGTGAGGCA
AAGGCATCTGGACTTGTTCCAGCCCAGCCCACCGGGTGACATCACCGGGCAGGGAGGGGTGCTGGTGGTGGTTCA
TACGGAGTAAGCTGCTCTGCCTGTGTGAGTGGCTCCTGGGCCCTAAACAGGCACCTTTAGGCCATGGGGTCACTCA
CCGTGAGCCATCAATGTGCTCTGGTCTGACATGGTTTTCTCTGTCTTCTAGTCTAGACCTAGTTTTTTTTGTTCT
GTTCCCCACGTATGGATATAGTAGAGATTGTTGTCTGTGAAATTTCTCTTTTGTAGATTTTGAGTTTTCCCTTGT
AGTGTAAGAATGATCACTTTCTGTAACAATAACAAGACCCTTTTTAAGATTTATCCTGTTTGTCTTTGTTGA
TTGAAACATAATAATTGTTAAATTTCTCTACAGCCTTCTTTTTCTTCCATAGCTAATCTTCTTCTAATAGTTTT
TGCTTTCTGTTTTGCTGTTGTTGCTTTGCAAAGCTTTCCCTCATAGCCTGTACCTGTTATCAATATAAAATAAT
CTTCTGTGTAATGCTTCATGACTTGAATTCTACTTTGATAAAAACATTGCCATACTGCTTTTTATCTTGATGAA
TTCATCTGGCATTGCTTTGCCTTATCATCTCATCTGGAGTTTTTAAATGCCATTTGTTTCAGTTGTCTTTAACAA
CATAATAAATAGACTTTGCCATTTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 928

MATATGVAEERLLAALAYLQCAVGCAVFARNRQTNSVYGRHALPSHRLRVPARAAWVVQELPSLALPLYQYASES
APRLRSAPNCILLAMFLVHYGHRCLIPFLMRGGKPMPELLACTMAIMFCTCNGYLQSRYLSHCAVYADDWVTDPR
FLIGFGLWLTGMLINIHS DHILRNLRKPGDTGYKIPRGGLFEYVTAANYFGEIMEWCGYALASWSVQGAAFAFFT
FCFLSGRAKEHHEWYLRKFEEYPKFRKIIIPFLF

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FIGURE 929A

TCATTGCAGCTGGGACAGCCCGGAGTGTGGTTAGCAGCTCGGCAAGCGCTGCCAGGTCTGGGGTGGTGGCAGC
CAGCGGGAGCAGGAAAGGAAGC**ATG**TTCCCAGGCTGCCACGCCTCTGGGTCTGGTGGTCTTGGGCACCAGCTG
GGTAGGCTGGGGGAGCCAAGGGACAGAAGCGGCACAGCTAAGGCAGTTCTACGTGGCTGCTCAGGGCATCAGTTG
GAGCTACCGACCTGAGCCCAAACTCAAGTTTGAATCTTTCTGTAACTTCCTTTAAGAAAATTGTCTACAGAGA
GTATGAACCATATTTTAAGAAAGAAAAACCACAATCTACCATTTTCAGGACTTCTTGGGCCTACTTTATATGCTGA
AGTCGGAGACATCATAAAAGTTCACCTTTAAAAATAAGGCAGATAAGCCCTTGAGCATCCATCCTCAAGGAATTAG
GTACAGTAAATTATCAGAAGGTGCTTCTTACCTTGACCACACATTCCCTGCAGAGAAGATGGACGACGCTGTGGC
TCCAGGCCGAGAATACACCTATGAATGGAGTATCAGTGAGGACAGTGGACCCACCCATGATGACCCTCCATGCCT
CACACACATCTATTACTCCCATGAAAATCTGATCGAGGATTTCAACTCTGGGCTGATTGGGCCCTGCTTATCTG
TAAAAAAGGGACCCTAACTGAGGGTGGGACACAGAAGACGTTTGACAAGCAAATCGTGCTACTATTTGCTGTGTT
TGATGAAAGCAAGAGCTGGAGCCAGTCATCATCCCTAATGTACACAGTCAATGGATATGTGAATGGGACAATGCC
AGATATAACAGTTTGTGCCCATGACCACATCAGCTGGCATCTGCTGGGAATGAGCTCGGGGCCAGAATTATTCTC
CATTCAATTTCAACGGCCAGGTCCTGGAGCAGAACCATCATAAGGTCTCAGCCATCACCTTGTGAGTGCTACATC
CACTACCGCAAATATGACTGTGGGCCCAGAGGGAAAGTGGATCATATCTTCTCTCACCCCAAAACATTTGCAAGC
TGGGATGCAGGCTTACATTGACATTAAAACTGCCCAAAGAAAACCAGGAATCTTAAGAAAATAACTCGTGAGCA
GAGGCGGCACATGAAGAGGTGGGAATACTTCATTGCTGCAGAGGAAGTCATTGGGACTATGCACCTGTAATACC
AGCGAATATGGACAAAAAATACAGGTCTCAGCATTTGGATAATTTCTCAAACCAAATTGGAACATTATAAGAA
AGTTATGTACACACAGTACGAAGATGAGTCCTTCACCAAACATACAGTGAATCCCAATATGAAAGAAGATGGGAT
TTTGGGTCTTATTATCAGAGCCCAGGTCAGAGACACACTCAAAATCGTGTTCAAAAATATGGCCAGCCGCCCTTA
TAGCATTTACCTCATGGAGTGACCTTCTCGCCTTATGAAGATGAAGTCAACTCTTCTTTACCTCAGGCAGGAA
CAACACCATGATCAGAGCAGTTCAACCAGGGGAAACCTATACTTATAAGTGGAACATCTTAGAGTTTGATGAACC
CACAGAAAATGATGCCCAGTGCTTAACAAGACCATACTACAGTGACGTGGACATCATGAGAGACATCGCCTCTGG
GCTAATAGGACTACTTCTAATCTGTAAGAGCAGATCCCTGGACAGGCGAGGAATACAGAGGGCAGCAGACATCGA
ACAGCAGGCTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTT
AAATCCTGATGAGGTGAAACGTGATGACCCCAAGTTTTATGAATCAAACATCATGAGCACTATCAATGGCTATGT
GCCTGAGAGCATAACTACTCTTGGATTCTGCTTTGATGACACTGTCCAGTGGCACTTCTGTAGTGTGGGGACCCA
GAATGAAATTTTGACCATCCACTTCACTGGGCACCTCATTCTATGGAAGAGGCATGAGGACACCTTGACCTT
CTTCCCCATGCGTGGAGAATCTGTGACGGTCACAATGGATAATGTTGGAACCTGGATGTTAACTTCCATGAATTC
TAGTCCAAGAAGCAAAAAGCTGAGGCTGAAATTCAGGGATGTTAAATGTATCCAGATGATGATGAAGACTCATA
TGAGATTTTGAACCTCCAGAATCTACAGTCATGGCTACACGGAAAATGCATGATCGTTTTAGAACCTGAAGATGA
AGAGAGTGATGCTGACTATGATTACCAGAACAGACTGGCTGCAGCATTAGGAATTAGGTCAATCCGAAACTCATC
ATTGAACCAGGAAGAAGAAGAGTTCAATCTTACTGCCCTAGCTCTGGAGAATGGCACTGAATTCGTTTCTTCGAA
CACAGATATAATTGTTGGTTCAAATTATTCTTCCCCAAGTAATATTAGTAAGTTCACTGTCAATAACCTTGCAGA
ACCTCAGAAAGCCCCTTCTCACCAACAAGCCACCACAGCTGGTTCCCCACTGAGACACCTCATTGGCAAGAACTC
AGTTCTCAATTCTTCCACAGCAGAGCATTCCAGCCCATATTCTGAAGACCCTATAGAGGATCCTCTACAGCCAGA
TGTCACAGGGATACGTCTACTTTCACCTTGGTGCTGGAGAATTCAGAAGTCAAGAACATGCTAAGCGTAAGGGACC
CAAGGTAGAAAGAGATCAAGCAGCAAAGCACAGGTTCTCCTGGATGAAATTACTAGCACATAAAGTTGGGAGACA
CCTAAGCCAAGACACTGGTTCTCCTTCCGGAATGAGGCCCTGGGAGGACCTTCTAGCCAAGACACTGGTTCTCC
TTCCAGAAATGAGGCCCTGGGAGGACCCTCCTAGTGATCTGTTACTCTTAAACAAAGTAACCTCATCTAAGATTTT
GGTTGGGAGATGGCATTGCTTCTGAGAAAGGTAGCTATGAAATAATCCAAGATACTGATGAAGACACAGCTGT
TAACAATTGGCTGATCAGCCCCCAGAATGCCTCACGTGCTTGGGGAGAAAGCACCCCTCTTGCCAACAAGCCTGG
AAAGCAGAGTGGCCACCCAAAGTTTCTAGAGTTAGACATAAATCTCTACAAGTAAGACAGGATGGAGGAAAGAG
TAGACTGAAGAAAAGCCAGTTTCTCATTAAGACACGAAAAAAGAAAAAAGAGAAGCACACACACCATGCTCCTTT
ATCTCCGAGGACCTTTCACCCTCTAAGAAGTGAAGCCTACAACACATTTTCAGAAAGAAGACTTAAGCATTCGTT
GGTGCTTCATAAATCCAATGAAACATCTCTTCCACAGACCTCAATCAGACATTGCCCTCTATGGATTTTGGCTG
GATAGCTCACTTCTGACCATAATCAGAATTCCTCAAAATGACACTGGTCAGGCAAGCTGTCTCCAGGTCTTTA
TCAGACAGTGCCCCCAGAGGAACACTATCAAACATTCCCCATTCAAGACCCTGATCAAATGCACTCTACTTCAGA
CCCCAGTCACAGATCCTCTTCTCCAGAGCTCAGTGAAATGCTTGAGTATGACCGAAGTCACAAGTCTTCCCCAC

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FIGURE 929B

AGATATAAGTCAAATGTCCCCTTCCTCAGAACATGAAGTCTGGCAGACAGTCATCTCTCCAGACCTCAGCCAGGT
GACCCCTCTCTCCAGAACTCAGCCAGACAAACCTCTCTCCAGACCTCAGCCACACGACTCTCTCTCCAGAACTCAT
TCAGAGAAACCTTTCCCCAGCCCTCGGTTCAGATGCCCATTTCTCCAGACCTCAGCCATACAACCCCTTTCTCCAGA
CCTCAGCCATACAACCCCTTTCTTTAGACCTCAGCCAGACAAACCTCTCTCCAGAACTCAGTCAGACAAACCTTTCT
TCCAGCCCTCGGTTCAGATGCCCCTTTCTCCAGACCTCAGCCATACAACCATTTCTCTAGACTTCAGCCAGACAAA
CCTCTCTCCAGAACTCAGCCATATGACTCTCTCTCCAGAACTCAGTCAGACAAACCTTTCCCCAGCCCTCGGTCA
GATGCCCATTTCTCCAGACCTCAGCCATACAACCCCTTTCTCTAGACTTCAGCCAGACAAACCTCTCTCCAGAACT
CAGTCAAACAAACCTTTCCCCAGCCCTCGGTTCAGATGCCCCTTTCTCCAGACCCAGCCATACAACCCCTTTCTCT
AGACCTCAGCCAGACAAACCTCTCTCCAGAACTCAGTCAGACAAACCTTTCCCCAGACCTCAGTGAGATGCCCCT
CTTTGCAGATCTCAGTCAAATTCCCCTTACCCAGACCTCGACCAGATGACACTTTCTCCAGACCTTGGTGAGAC
AGATCTTTCCCCAAACCTTTGGTTCAGATGTCCCTTTCCCCAGACCTCAGCCAGGTGACTCTCTCTCCAGACATCAG
TGACACCACCCTTCTCCCGATCTCAGCCAGATATCACTCCTCCAGACCTTGATCAGATATTCTACCCCTTCTGA
ATCTAGTCAGTCATTGCTTCTTCAAGAATTTAATGAGTCTTTTCTTATCCAGACCTTGGTTCAGATGCCATCTCC
TTCATCTCCTACTCTCAATGATACTTTTCTATCAAAGGAATTTAATCCACTGGTTATAGTGGGCCTCAGTAAAGA
TGGTACAGATTACATTGAGATCATTCCAAAGGAAGAGGTCCAGAGCAGTGAAGATGACTATGCTGAAATTGATTA
TGTGCCCTATGATGACCCCTACAAAACCTGATGTTAGGACAAACATCAACTCCTCCAGAGATCCTGACAACATTGC
AGCATGGTACCTCCGCAGCAACAATGGAACAGAAAGAAATTATTACATTGCTGCTGAAGAAATATCCTGGGATTA
TTCAGAATTTGTACAAAGGGAAACAGATATTGAAGACTCTGATGATATTCCAGAAGATACCACATATAAGAAAGT
AGTTTTTTCGAAAGTACCTCGACAGCACTTTTACCAAACGTGATCCTCGAGGGGAGTATGAAGAGCATCTCGGAAT
TCTTGGTCTTATTATCAGAGCTGAAGTGGATGATGTTATCCAAGTTCGTTTTTAAAAATTTAGCATCCAGACCGTA
TTCTCTACATGCCCATGGACTTTCTATGAAAAATCATCAGAGGGAAAGACTTATGAAGATGACTCTCCTGAATG
GTTTTAAGGAAGATAATGCTGTTTCAGCCAAATAGCAGTTATACCTACGTATGGCATGCCACTGAGCGATCAGGGCC
AGAAAGTCTTGGCTCTGCCTGTGCGGCTTGGGCCTACTACTCAGCTGTGAACCCAGAAAAAGATATTTACTCAGG
CTTGATAGGTCCCCCTCTAATCTGCCAAAAAGGAATACTACATAAGGACAGCAACATGCCTGTGGACATGAGAGA
ATTTGTCTTACTATTTATGACCTTTGATGAAAAGAAGAGCTGGTACTATGAAAAGAAGTCCCGAAGTTCTTGGAG
ACTCACATCCTCAGAAATGAAAAATCCCATGAGTTTACAGCCATTAATGGGATGATCTACAGCTTGCCTGGCCT
GAAAATGTATGAGCAAGAGTGGGTGAGGTTACACCTGCTGAACATAGGCGGCTCCCAAGACATTACAGTGGTTCA
CTTTACAGGCCAGACCTTGCTGGAAAATGGCAATAAACAGCACCAGTTAGGGGTCTGGCCCTTCTGCCTGGTTC
ATTTAAACTCTTGAAATGAAGGCATCAAACCTGGCTGGTGGCTCCTAAACACAGAGGTTGGAGAAAACCAGAG
AGCAGGGATGCAACGCCATTTCTTATCATGGACAGAGACTGTAGGATGCCAATGGGACTAAGCACTGGTATCAT
ATCTGATTCACAGATCAAGGCTTCAGAGTTTCTGGGTTACTGGGAGCCAGATTAGCAAGATTAAACAATGGTGG
ATCTTATAATGCTTGGAGTGTAGAAAACTTGCAGCAGAATTTGCCTCTAAACCTTGGATCCAGGTGGACATGCA
AAAGGAAGTCATAATCACAGGGATCCAGACCCAAGGTGCCAAACACTACCTGAAGTCTGCTATACCACAGAGTT
CTATGTAGCTTACAGTTCCAACCAGATCAACTGGCAGATCTTCAAAGGGAACAGCACAAGGAATGTGATGTATTT
TAATGGCAATTCAGATGCCTCTACAATAAAAGAGAATCAGTTTGACCCACCTATTGTGGCTAGATATATTAGGAT
CTCTCCAACCTCGAGCCTATAACAGACCTACCCTTCGATTGGAAGTCAAGGTTGTGAGGTAAATGGATGTTCCAC
ACCCCTGGGTATGGAAAATGGAAAGATAGAAAACAAGCAAATCACAGCTTCTTCGTTTAAAGAAATCTTGGTGGGG
AGATTACTGGGAACCCCTTCCGTGCCCCTGCTGAATGCCAGGGACGTGTGAATGCCTGGCAAGCCAAGGCAAACAA
CAATAAGCAGTGGCTAGAAATTGATCTACTCAAGATCAAGAAGATAACGGCAATTATAACACAGGGCTGCAAGTC
TCTGTCTCTGAAATGFATGTAAAGAGCTATACCATCCACTACAGTGAGCAGGGAGTGAATGGAAACCATACAG
GCTGAAATCCTCCATGGTGGACAAGATTTTTGAAGGAAATACTAATACCAAAGGACATGTGAAGAACTTTTCAA
CCCCCAATCATTTCCAGGTTTATCCGTGTCAATTCCTAAAAACATGGAATCAAAGTATTGCACTTCGCCTGGAAC
CTTTGGCTGTGATATTTACTAGAATTGAACATTCAAAAAACCCCTGGAAGAGACTCTTTAAGACCTCAAACCATTT
AGAATGGGCAATGTATTTTACGCTGTGTTAAATGTTAACAGTTTTCCACTATTTCTCTTTCTTTCTATTAGTGA
ATAAAATTTTATAC

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FIGURE 930

MFPGCPRLWVLVVLGTSWVGWGSQGTEAAQLRQFYVAAQGISWSYRPEPTNSSLNLSVTSFKKIVYREYEPYFKK
EKPQSTISGLLGPTLYAEVGDIIKVHFKNKADKPLSIHPQGIRYSKLSEGASYLDHTFPAEKMDDAVAPGREYTY
EWSISEDSPGTHDDPPCLTHIYYSHENLIEDFNSSLIGPLLLICKKGTLTGGTQKTFDKQIVLLFAVFDESKSWS
QSSSLMYTVNGYVNGTMDPDITVCAHDHISWHLLGMSSGPELFSIHFNQVLEQNHKKVSAITLVSATSTTANMTV
GPEGKWIISLTPKHLQAGMQAYIDIKNCPKKTNRNLKKITREQRRHMKRWEYFIAAEEVIWDYAPVIPANMDKKY
RSQHLDNFSNQIGKHYKKVMTQYEDESFTKHTVNPNMKEDGILGPIIRAQVRDTLKIVFKNMASRPYSIYPHGV
TFSPYEDENVSSFTSGRNNMIRAVQPGETYTYKWNILEFDEPTENDAQCCLTRPYYSVDVIMRDIASGLIGLLLI
CKSRSLDRRGIQRAADIEQQAVFAVF DENKSWYLEDNINKFCENPDEVKRDDPKFYESNIMSTINGYVPESITTL
GFCFDDTVQWHFCSVGTQNEILTIHFTGHSFIYGKRHEDTLTLFPMRGESVTVTMDNVGTWMLTSMNSSPSRKKL
RLKFRDVKCIPDDDEDSYEIFEPPESTVMATRKMHDRLEPEDEESDADYDYQNRLAAALGIRSFRNSSLNQEEEE
FNLTALALENGTEFVSSNTDIIVGSNYSSPSNISKFTVNNLAEPQKAPSHQQATTAGSPLRHLIGKNSVLNSSTA
EHSSPYSEDPIDPLQPDVTGIRLLSLGAGEFRSQEHAKRKGPKVERDQAAKHRFSWMKLLAHKVGRHLSQDTGS
PSGMRPWEDLPSQDTGSPSRMRPWEDPPSDLLLLKQSNSSKILVGRWHLASEKGSYEIIQDTEDETAVERNWLISP
QNASRAWGESTPLANKPGKQSGHPKFPRVRHKSLOVRQDGGKSRLKKSQFLIKTRKKKKEKHTHHAPLSPRTFHP
LRSEAYNTFSERRLKHSLVLHKSNETSLPTDLNQTLP SMDFGWIASLPDHNQNSSNDTGQASCPPGLYQTVPPPEE
HYQTFPIQDPDQMHSSTDP SHRSSPELSEMLEYDRSHKSFPDTSQMSPSSEHEVWQTVISPDLSQVTLSPELS
QTNLSPDLSHTTTLSPELIQRNLSPALGQMPI SPDLSHTTTLSPDLSHTTTLSDLQSQTNLSPELSQTNLSPALGQMP
LSPDLSHTTTLSDLFSQTNLSPELSHMTLSPELSQTNLSPALGQMPI SPDLSHTTTLSDLFSQTNLSPELSQTNLSP
ALGQMPLSPDPSHTTTLSDLQSQTNLSPELSQTNLSPDLSEMP LFADLSQIPLTPDLQMTLSPDLGETDLSNFG
QMSLSPDLSQVTLSPDISDTTLLPDLSQISPPPDLDQIFYPSESSQSLLLQEFNESFPYPDLGQMPSPSSPTLND
TFLSKEFNPLVIVGLSKDGTDYIEIIPKEEVQSSSEDDYAEIDYVPYDDPYKTDVRTNINSSRDPDNIAAWYLRN
NGNRRNYIAAEEISWDYSEFVQRETDIEDSDDIPEDTTYKKVFRKYLDSTFTKRDRPGEYEEHLGILGPIIRA
EVDDVIQVRFKNLASRPYSLHAHGLSYEKSSEGKTYEDDSPWFKEDNAVQPNSSYTYVWHATERSGPESPGSAC
RAWAYYSAVNPEKDIHSGLIGPLLICQKGILHKDSNMPVDMREFVLLFMTFDEKKSWYEEKSRSSWRLTSSEMK
KSHEFHAINGMIYSLPGLKMYEQEWVRLHLLNIGGSQDIHVVFHFGQTLLENGKQHQQLGVWPLLP GSFKTLEMK
ASKPGWLLNTEVGENQRAGMQTPFLIMDRDCRMPMGLSTGIISDSQIKASEFLGYWEPRLARLNNGGSYNAWSV
EKLAAEFASKPWIQVDMQKEVIITGIQTQGAHYLKSCTTTEFYVAYSSN

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FIGURE 931

GGCACGAGGCCAAGAGCTACGCGGCGGCGGCGGAGCGCAGGCCTCGTGCCGTTACGGCCATCACGGCGGCCGCAG
TGGCGTCTGGAGCCCTCCTCAGTGCTGAAGCTGCTGAAAAGATGGCAGAGAAGTGGTGGTAGTAGCCAAATTTG
ATTATGTGGCCCAACAAGAACAAGAGTTGGACATCAAGAAGAATGAGAGATTATGGCTTCTGGATGATTCTAAGT
CCTGGTGGCGAGTTCGAAATTCCATGAATAAAACAGGTTTTGTGCCTTCTAACTATGTGGAAAGGAAAAACAGTG
CTCGGAAAGCATCTATTGTGAAAAACCTAAAGGATACCTTAGGCATTGGAAAAGTGAAAAGAAAAACCTAGTGTGC
CAGATTCTGCATCTCCTGCTGATGATAGTTTTGTGTGACCCAGGGGAACGTCTCTATGACCTCAACATGCCCCGCTT
ATGTGAAATTTAACTACATGGCTGAGAGAGAGGATGAATTATCATTGATAAAGGGGACAAAGGTGATCGTCATGG
AGAAATGCAGTGATGGGTGGTGGCGTGGTAGCTACAATGGACAAGTTGGATGGTTCCCTTCAAACATATGTAAGT
AAGAAGGTGACAGTCCTTTGGGTGACCATGTGGGTTCTCTGTCAGAGAAATTAGCAGCAGTCGTCAATAACCTAA
ATACTGGGCAAGTGTTGCATGTGGTACAGGCTCTTTACCCATTGAGCTCATCTAATGATGAAGAAGTTAATTTTCG
AGAAAGGAGATGTAATGGATGTTATTGAAAAACCTGAAAATGACCCAGAGTGGTGGAAATGCAGGAAGATCAATG
GTATGGTTGGTCTAGTACCAAAAAACTATGTTACCGTTATGCAGAATAATCCATTAACCTTCAGGTTTGGAACCAT
CACCTCCACAGTGTGATTACATTAGGCCTTCACTCACTGGAAAAGTTTGCTGGCAATCCTTGGTATTATGGCAAAG
TCACCAGGCATCAAGCAGAAATGGCATTAAATGAAAGAGGACATGAAGGGGATTTCTCATTTCGTGATAGTGAAT
CTTCGCCAAATGATTTCTCAGTATCACTAAAAGCACAAAGGGAAAAACAAGCATTTTAAAGTCCAACATAAAGAGA
CTGTCTACTGCATTGGGCAGCGTAAATTCAGCACCATGGAAGAAGTTGTAGAACATTACAAAAAGGCACCAATTT
TTACAAGTGAACAAGGAGAAAAATTATATCTTGTCAAGCATTTATCATGATACTGCTGACCAGAAGTACTGCTG
TGTAGCTGTAATTTGTCATGTAATTGAAGACTGAGAAAATGTTGGGTCCAGTCGTGCTTGATTGGAAATTGTTGT
TTCTAAATCTATATGAGAATTGACAATAAGTATTTTTATTATAACTCAGCCCATACATATATACTATGTATGCAG
TGCATCTGCATAGAACAGTTCCTTATCCTTGGCCTTCTGTTTTATTGTTTTTTCTTTGCTGTTTTCCCTTTGCT
TCTAATATTACAGTTTTGTATTTGTAAACAAAAATCAAATAATGCATATCAGAATCTTTATATGGAAGAAATCC
TTTATTGCCTTTCCTTTGTTTCCTTGTAAGGCACCTGTTCTGTTATGGTTTTTTCATTATATAAAATTATTATA
TCTATATATGACATATGCTAAATTTCTTGGAGAGTGTTAATCTTTTCTGTGACTAAATAGCAATAATAAGTGGA
AAATTAGAAATTATTTCCAGGTATTATATTTGTCACAGGCCATTGTAAATACCAAGTATATTGTGTCTGCCATAA
TTTTTAAAAATACATTCATTGTCTTCAGTCATACAGCAAGACACATGAGACATAGATTAGAAAACATGTTGTACA
ATTTTAATTTACAACGTGTTGGAAATAAAAAATCACTTAATTTTTTTTCCAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 932

MAEEVVVVAKFDYVAQQEQELDIKKNERLWLLDDSKSWWRVRNSMNKTGFVPSNYVERKNSARKASIVKNLKD TL
GIGKVKRKPSVPDSASPADDSFVDPGERLYDLNMPAYVKFNMAEREDEL SLIKGTKVIVMEKCS DGWWRGSYNG
QVGWFPSNYVTEEGDSPLGDHVGSLSEKLAAVVNNLNTGQVLHV VQALYPFSSSNDEELNFEKGDVMDVIEKPEN
DPEWWKCRKINGMVGLVPKNYVTVMQNNPLTSGLEPSPPQCDYIRPSLTGKFAGNPWYYGKVTRHQAEMALNERG
HEGDFLIRDSESSPNDFSVSLKAQGKNKHFKVQLKETVYCIGQRKFSTMEELVEHYKKAPIFTSEQGEKLYLVKH
LS

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FIGURE 933A

CGGGCAGCGTGGACCCCGGATGAGTTGCTTTTAGGCTTGCTGGCCCGCGGGGCTGTCCAGGCACGCGAGGCCCCCT
CAGGTACGCCCTCTCTTCCCTGCAGGATCCGGCCCTCAAAGACGAGGGTCACGCACGCGTTACAACCCCGAAACA
GTAGCACAAGATTTAATTTTTAAAGAGCGTGTTTCTTCGGGGCTTGCCGTTTCGTTTCGTTTCCAGCCTCAGGAAT
TTATGGTCGCCTTTTTGAATGAGCAACAAAATGCTTCAACAAGTTCAGAAAACATAAATTTTCTGCTGAAGAA
GAGAAAATCTTGGAGTTTTGGACTGAATTTAATTGTTTTTCAGGAATGCTTAAAGCAATCAAAACATAAACCAAAA
TTTACCTTCTATGATGGTCCTCCTTTTTGCAACTGGACTGCCTCACTATGGACATATACTTGCGGGTACAATTAAA
GATATAGTTACAAGATATGCTCACCAGAGTGCGGTTTCATGTTGACAGAAGATTTGGATGGGATTGCCATGGCTTA
CCTGTGGAATATGAAATTGATAAGACACTGGGAATCAGAGGACCAGAGGATGTGGCCAAAATGGGGATTACAGAG
TATAACAATCAGTGCCGAGCAATTGTGATGAGATATTCTGCTGAGTGGAAGTCTACTGTTAGCAGACTTGGCCGA
TGGATTGACTTTGACAATGACTATAAACTCTGTATCCACAATTCATGGAATCAGTCTGGTGGGTCTTCAAACAA
CTCTATGATAAAGGCCTTGTTTATAGAGGTGTGAAAGTCATGCCCTTCTCTACGGCATGTAACACTCCACTTTCC
AACTTCGAGTCACACCAGAATTATAAGGATGTTCAAGATCCTTCAGTATTTGTAACCTTCCCTTTGGAAGAAGAT
GAAACTGTATCTTTAGTTGCTTGGACAACCACTCCCTGGACTCTACCTAGTAACCTTGCTGTGTGTGTTAATCCA
GAAATGCAATATGTGAAAATTAAAGATGTTGCCAGAGGACGATTACTCATTTTTAATGGAAGCCAGATTGTCAGCC
CTCTATAAATTGGAGAGTGACTATGAGATCCTTGAAAGATTTCCCTGGTGCCTATCTTAAAGGCAAGAAGTACAGG
CCCCGTGTTGACTATTTCTGAAGTGTAAGAGAATGGCGCTTTCCTGTGCTTGTTGACAACATATGTGAAGGAA
GAAGAAGGCACAGGGGTTGTCCACCAAGCTCCTTACTTCGGTGCTGAGGACTATCGGGTCTGTATGGACTTTAAC
ATTATTCGGAAGACTCACTCCCTGTTTGCCCTGTGGATGCTTCAGGCTGCTTCACAACGGAGGTGACAGATTTT
GCAGGACAGTATGTGAAGGATGCTGACAAAAGTATCATCAGGACTTTGAAGGAACAAGGCCGACTTCTGGTTGCC
ACCACCTTCACTCACAGCTACCCTTTTTGCTGGAGATCAGACACTCCTCTAATTTACAAAGCAGTGCCAGCTGG
TTTGTGCGAGTGGAGAACATGGTGGACCAGCTCCTAAGGAACAATGACCTGTGCTACTGGGTCCAGAGTTGGTA
CGAGAAAAACGATTTGGAAATTGGCTGAAAAGATGCACGTGACTGGACAATTTCCAGAAACAGATACTGGGGCACC
CCCATCCCACTGTGGGTGAGCGATGACTTTGAGGAGGTGGTATGCATTGGGTGAGTGGCGGAACCTGAAGAAGT
TCAGGAGCAAAGATCTCAGATCTCCACAGAGAGAGTGTTGACCACCTGACCATTCCCTTCAGCTGTGGGAAGGGA
TCCTTGCACCGCATCTCTGAAGTGTTTGACTGTTGGTTTGAGAGTGGCAGCATGCCCTATGCTCAGGTTTCATTAC
CCGTTTGAAAACAAGAGGGAGTTTGAGGATGCTTTTCTGCGAGATTTTCATTGCCGAGGGCATCGACCAAAACCAGA
GGATGGTTTTTATACCCTGCTGGTGCTGGCCACGGCCCTCTTTGGACAACCGCCTTTCAAGAACGTAATTGTGAAT
GGGCTTGCTTGGCAAGTGATGGCCAAAAAATGAGCAAACGGAAAAAGAATTATCCAGATCCAGTTTCCATCATC
CAGAAGTATGGTGCTGATGCCCTCAGATTATATCTGATTAACTCCCCTGTGGTGAGAGCAGAAAAACCTCCGCTTT
AAAGAAGAGGGTGTGCGGGACGTCTTAAGGATGTACTGCTCCCATGGTACAATGCCTATCGCTTCTTAATCCAG
AACGTTCTGAGGCTCCAGAAGGAGGAAGAAATAGAATTTCTCTACAATGAGAACACGGTTAGAGAAAGCCCCAAC
ATTACAGACCGGTGGATCCTGTCTTTCATGCAGTCTCTCATTGGCTTCTTTGAGACTGAAATGGCAGCTTATAGG
CTTTATACTGTGGTGCTCGCCTGGTCAAGTTTGTAGATATTCTGACCAATTGGTATGTTAGAATGAACCGCAGA
AGATTAAAGGTGAAAATGGGATGGAGGATTGTGTCATGGCCCTAGAAACCTTGTTTAGTGTTCTGCTTTCTCTT
TGCAGACTTATAGCTCCCTACACACCTTTTCTCACTGAATTGATGTACCAGAATCTAAAGGTGCTGATTGACCT
GTTTCTGTTTCAGGACAAGGACACACTCAGCATTCCTACCTCATGCTGCCCCGTGTTTCGAGAAGAATTGATTGAC
AAGAAAACAGAGAGTGCAGTATCTCAGATGCAGTCTGTGATTGAACTTGGAAGAGTGATCAGAGACCGAAAACT
ATTCCCATAAAGTATCCTTTGAAAGAAATTGTGGTTATCCATCAAGATCCAGAAGCTCTTAAAGATATCAAGTCT
TTGGAGAAGTATATCATTGAGGAACTCAATGTTGAAAAGTTTACTGTCTACAGATAAAAAACAAGTATGGCATT
CGGCTAAGGGCAGAACCAGATCACATGGTCTCGGGGAAGCGTCTGAAGGGAGCCTTTAAGGCAGTGATGACGTCC
ATCAAGCAGTTGAGCAGTGAGGAGCTGGAGCAGTTCAGAAAGACTGGGACCATTGTTGTGGAAGGCCATGAATTG
CACGATGAAGACATCCGCCTCATGTACACCTTTGATCAGGCCACAGGTGGGACTGCGCAATTTGAAGCACACTCA
GATGCTCAGGCTTTGGTCTCTTAGATGTCACTCCTGACCAGTCAATGGTAGATGAAGGAATGGCTCGGGGAAGTC
ATCAATCGCATACAGAACTTCGCAAAAAGTGCAATCTGGTTCCAACCTGATGAAATCACAGTGTACTATAAAGCA
AAGTCTGAAGGAACATATCTGAATAGTGTTATTGAAAAGCCACACAGAGTTCATATTTACCACCATAAAGGCTCCC
TTGAAACCATATCCAGTTTCTCCATCGGATAAAGTCCCTTATTCAAGAAAAACACAGTTGAAGGGATCTGAACTG
GAAATTACACTCACAGAGGATCTTCCCTTCCCTGGTCTGCTTGTGTCATATGTCAATCTTAACATTTGTGCAAT
GGCAGTGAACAAGGTGGAGTATTGCTCCTGGAAAATCCAAAAGGTGACAATAGGTTGGACCTTTTAAAGCTGAAG

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FIGURE 933B

AGTGTGTCACCTAGCATTCTTTGGTGTGAAAAATACAGAGCTGGCTGTCTTCCATGATGAAACAGAAATACAAAAC
CAAACCTGACTTACTGAGTCTTAGTGAAAAACACTTTGTGTGACTGCAGGATCGGCTCCCTCTCTGATCAACAGT
TCTAGTACTCTTCTTTGTCAGTATATCAACCTACAGCTCCTGAATGCAAAGCCACAAGAGTGTTTAATGGGGACA
GTGGGCACTCTCCTGCTTGAAAACCCACTTGGGCAGAAATGGACTCACCCACCAAGGTCTTCTGTATGAAGCAGCC
AAGGTGTTTGGCCTTCGGAGCAGGAAGCTAAAGCTGTTTCTGAATGAGACCCAAACGCAGGAAATTACAGAAGAC
ATCCCCGTGAAGACTTTGAATATGAAGACTGTGTATGTTTCTGTGTTACCAACAACAGCAGACTTCTAGCATGTA
CTTATCAATGTTGTTTCGGTCAGCCCTTCCCTAATTACACCTATCCCCCTACACATACATGCACATAGACACACACA
TGAACACACTGAAGATATTTTCCTTCAGGTGTGTGTAAAAATATGCTGCTTGGATTGAAATTCAAATGGGATTGATT
AGTCAAGTAACTTGAGACCTCACAGTAATCTTCACACTTAACCTTAGACACCTATGCAGTCATGTTGGGAGCAGG
TTACAATGTTACTTCAGCCACAGTTTATTTCTATTCTTGAGTTCTTAAGTACAGAAGATAGAAGTGATTATAAT
GGCATAGTATATATATCATTCTTGGCCTTTTAAAAATTTATTTGAGACCTCTTGATGAAATGGACATATTATATA
TTTCTGCCACCTGGATTTTCTTGATAATTTGATGGAATATTTTAAGTTTCAGTAAATCAGAACAATAAACAAAC
TCAGATAT

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FIGURE 934

MLQQVPENINFPAAAAEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTRYAHQS
GFHVDRRFWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGRWIDFDNDYKT
LYPQFMESVWWVFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVQDPSVFVTFPLEEDETIVSLVAWTT
TPWTLPSNLAVCVNPEMQYVKIKDVARGRLILMEARLSALYKLES DY EILERFPGAYLKGKKYRPLFDYFLKCK
ENGAF TVLV DNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNII RKDSL P VCPVDASGCFTTEVTDFAGQYVKDADK
SIIRTLKEQGRLLVATTFTHSYFPCWRS D TPLIYKAVPSWFVRVENMVDQLLRNNDLCYWPELVREKRFGNWLK
DARDWTISRNRWGTPIPLWVSDDFEEVVCIGSVAEELEELSGAKISDLHRESVDHLTIPSRCKGSLHRISEVFD
CWFESGSMPIYAQVHYPPFENKREFEDAFPADFAEGIDQTRGW FY TLLVLATALFGQPPFKNVIVNGLVLASDGQK
MSKRKKNYPDPVSI IQKYGADALRLYLINSPVVR AENLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLR LQKEEE
IEFLYNENTVRESPNITDRWILSFMQSLIGFFETEMAAYRLYTVVPRLVKFVDILT NWYVRMNRRLKGENGMED
CVMALETLSVLLSLCRLIAPYTPFLTEL MYQNLKVLIDPVSVDKDTLSIHYLMLPRVREELIDKKTESAVSQM
QSVIELGRVIRDRKTIPIKYPLKEIVVIHQDPEALKD IKSLEKYIIEELNVRKVTLSTDKNKYGIRLRAEPDHMV
LGKRLKGAFKAVMTSIKQLSSEEELEQFQKTGTIVVEGHELHDEDIRLMYTFDQATGGTAQFEAHSDAQALVLLDV
TPDQSMVDEGMAREVINRIQKL RKKCNLVPTDEITVYYKAKSEGTYLNSVIESHTEFIFTTIKAPLKPYPVSPSD
KVL IQEKTQLKGSELEITLTRGSSLP GPACAYVNLN ICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVK
NTELAVFHDETEIQNQTDLLSLSGKTL CVTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLLENPL
GQNGLTHQGLLYEAAKVFG LRSRKLKFLNETQTQEITEDIPVKT LNMKTVYVSVLP TTADF

[illegible]

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FIGURE 936

MSSSCSGLSRVLVAVATALVSASSPCPQAWGPPGVQYQPGRSVKLCCPGVTAGDPVSWFRDGEPKLLQGPDSGL
GHELVLAQADSTDEGTYICQTLDGALGGTVTLQLGYPPARPVVSCQAADYENFSCWSPSQISGLPTRYLTSYRK
KTVLGADSQRRSPSTGPWPCPDPLGAARCVVHGAEFWSQYRINVTEVNPLGASTRLLDVSLQSILRPDPPQGLR
VESVPGYPRRLRASWTYPASWPCQPHFLLKFRLQYRPAQHPAWSTVEPAGLEEVITDAVAGLPHAVRVSARDFLD
AGTWSTWSPEAWGTPSTGTIPKEIPAWGQLHTQPEVEPQVDSEAPPRPSLQPHRLLDHRDSVEQVAVLASLGIL
SFLGLVAGALALGLWLRLRRGGKDGSPKPGFLASVIPVDRRPGAPNL

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FIGURE 937

AGTTGCAGTGGAAAGAAATGTGTCATCTGTGGTTTGGTTTTTAAAAGTGGAAACTAGCTGCACATATCCTTTTT
TACTGCAGATTTACTTTAAGGCTCATATTCTCCAAGTCTATTCTGCTTTAAAAAGAAGACAAGAAAAGAAGTGGT
TTATCAAAATCACGTTATAATCAGATTTTGACCAAGCATTTTGTAAGATTGCCAAGTATGCCCACGGAC**ATGGAA**
CACACAGGACATTACCTACATCTTGCCTTTCTGATGACAACAGTTTTTTCTTTGTCTCCTGGAACAAAAGCAAAAC
TATACCCGCTCTGTGGGCTAACAGTACTTCTTCCTGGGATTTCAGTTATTCAAACAAGACAGGCAGAAAACCAAAAT
GAAAACATTAACACAAACCCTATAACTCCTGAAGTAGATTATAAAGGTAATTCTACAAACATGCCTGAAAACATCT
CACATCGTAGCTTTAACTTCTAAATCTGAACAGGAGCTTTATATACCTTCTGTCTGTCAGCAACAGTCCTTCAACA
GTACAGAGCATTGAAAACACAAGCAAAAGTCATGGTGAAATTTTCAAAAAGGATGTCTGTGCGGAAAACAACAAC
AACATGGCTATGCTAATTTGCTTAATTATAATTGCAGTGCTTTTTCTTATCTGTACCTTTCTATTTCTATCAACT
GTGGTTTTGGCAAACAAAGTCTCTTCTCTCAGACGATCAAAACAAGTAGGCAAGCGTCAGCCTAGAAGCAATGGC
GATTTTCTGGCAAGCGGTCTATGGCCCCTGAATCAGACACTTGGAAGAACAACAGCTCACAGGACCCAAC
CTAGTGATGCAATCTACTGGAGTGCTCACAGCTACAAGGGAAAGAAAAGATGAAGAAGGAAGTGAAGAACTTACT
AACAAACAGATAGGT**TAGT**GAAGAAAAATGCAAAGTAGCAATGAGAAGGCTTATGGAGTAAAAATGAAGTCAGTT
GGTATTTAATCCCAAAGTGTGTTCTTGATTATCTAAAATTTGACATGGTAGACCTTGCAATTTAGAATCAAGCAG
GTGAGACAGGGAGAAGTATGCCTGCTTAATTATTTAAACTGTGTACTTTTGTTTTGACACTGAATATTTTAAAAA
GCAAATAATAAAATAACTAAGCATTGAGGAAAATTTAAGGATAAATTGAGGAACTGATTAATAGAGATAGCA
AGGGATAATTAAATAAATATTCCTATGTAGCAACAGTGGTTAGATGATCTTTGTCTGAATGTAATAAACTTTG
AATAGTTTTAGTGTGTCCTTAAAGCCAAGTATATGCTTTAACATCAAATGGAAGTCAAATTCCTAATGCATAGAT
AGAGAGAGCTAACTGTGTAATTTAATGGTATCTTCCTTGCTGGATGTGGCAGAATCCACACCAGCTTATCAACC
AACACAGCTAATTTTAGAATAGGTCTCTTTATCTTTCCATATGGCACACGTAAGAAAGTGTCTTTCTACTATTAAT
ATTAAATTAAACCTTTACTTTTGTATAATAAATTAAAACTCAGAATAAACCTGTGACCACGT

1064/2825
FIGURE 938

MEHTGHYLHLAFLMTTVFSLSPGTKANYTRLWANSTSSWDSVIQNKTGRNQENININTNPITPEVDYKGNSTNMPE
TSHIVALTSKSEQELYIPSVVSNPSTVQSIENSTKSHGEIFKKDVCAENNNNMAMLICLI IIIAVLFLICTFLFL
STVVLANKVSSLRRSKQVGKRQPRSNNGDFLASGLWPAESDTWKRTKQLTGPNLVMQSTGVL TATREKDEEGTEK
LTNKQIG

1065/2825
FIGURE 939

GGTAGCAGGAGGCTGGAAGAAAGGACAGAAGTAGCTCTGGCTGTG**ATG**GGGATCTTACTGGGCCTGCTACTCCTG
GGGCACCTAACAGTGGACACTTATGGCCGTCCCATCCTGGAAGTGCCAGAGAGTGTAACAGGACCTTGGAAGGG
GATGTGAATCTTCCCTGCACCTATGACCCCTGCAAGGCTACACCCAAGTCTTGGTGAAGTGGCTGGTACAACGT
GGCTCAGACCCTGTCAACCATCTTTCTACGTGACTCTTCTGGAGACCATATCCAGCAGGCAAAGTACCAGGGCCGC
CTGCATGTGAGCCACAAGGTTCCAGGAGATGTATCCCTCCAATTGAGCACCCCTGGAGATGGATGACCGGAGCCAC
TACACGTGTGAAGTCACCTGGCAGACTCCTGATGGCAACCAAGTCGTGAGAGATAAGATTACTGAGCTCCGTGTC
CAGAAACTCTCTGTCTCCAAGCCCACAGTGACAACCTGGCAGCGGTTATGGCTTCACGGTGCCCCAGGGAATGAGG
ATTAGCCTTCAATGCCAGGCTCGGGGTTCTCCTCCCATCAGTTATATTTGGTATAAGCAACAGACTAATAACCAG
GAACCCATCAAAGTAGCAACCTAAGTACCTTACTCTTCAAGCCTGCGGTGATAGCCGACTCAGGCTCCTATTTT
TGCACTGCCAAGGGCCAGGTTGGCTCTGAGCAGCACAGCGACATTGTGAAGTTTGTGGTCAAAGACTCCTCAAAG
CTACTCAAGACCAAGACTGAGGCACCTACAACCATGACATACCCCTTGAAAGCAACATCTACAGTGAAGCAGTCC
TGGGACTGGACCACTGACATGGATGGCTACCTTGGAGAGACCAGTGCTGGGCCAGGAAAGAGCCTGCCTGTCTTT
GCCATCATCCTCATCATCTCCTTGTGCTGTATGGTGGTTTTTACCATGGCCTATATCATGCTCTGTCTGGAAGACA
TCCCAACAAGAGCATGTCTACGAAGCAGCCAGGGCACATGCCAGAGAGGCCAACGACTCTGGAGAAACCATGAGG
GTGGCCATCTTCGCAAGTGGCTGCTCCAGTGATGAGCCAACCTCCAGAATCTGGGCAACAACCTACTCTGATGAG
CCCTGCATAGGACAGGAGTACCAGATCATCGCCAGATCAATGGCAACTACGCGCGCTGCTGGACACAGTTCCT
CTGGATTATGAGTTTCTGGCCACTGAGGGCAAAGTGTCTGT**TAAAA**ATGCCCCATTAGGCCAGGATCTGCTGAC
ATAATTGCCTAGTCAGTCCTTGCCTTCTGCAATGGCCTTCTTCCCTGCTACCTCTCTTCTGGATAGCCCAAAGTG
TCCGCCTACCAACACTGGAGCCGCTGGGAGTCACTGGCTTTGCCCTGGAATTTGCCAGATGCATCTCAAGTAAGC
CAGCTGCTGGATTTGGCTCTGGGCCCTTCTAGTATCTCTGCCGGGGGCTTCTGGTACTCCTCTCTAAATACCAGA
GGGAAGATGCCCATAGCACTAGGACTTGGTCATCATGCCTACAGACACTATTCAACTTTGGCATCTTGCCACCAG
AAGACCCGAGGGAGGCTCAGCTCTGCCAGCTCAGAGGACCAGCTATATCCAGGATCATTTCTCTTTCTTCAGGGC
CAGACAGCTTTTAAATTGAAATTGTTATTTACAGGCCAGGGTTCAGTTCTGCTCCTCCACTATAAGTCTAATGTT
CTGACTCTCTCCTGGTGCTCAATAAATATCTAATCATAACAGCAAAAAAAAAAAAAAAAAAAAAA

1066/2825
FIGURE 940

MGILLGLLLLGHLLTVDTYGRPILEVPESVTGPWKGDVNLPCYDPLQGYTQVLVKWLVQRGSDPVTIFLRDSSGD
HIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPTVTTGSG
YGFTVPQGMRLSLQCQARGSPPISYIWKQQTNNQEP IKVATLSTLLFKPAVIADSGSYFCTAKQVGSEQHSDI
VKFVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTDDMDGYLGSETSAGPGKSLPVFAIILIIISLCCMVVFT
MAYIMLCRKTSQQEHVYEAARAHAREANDSGETMRVAIFASGCSSDEPTSQNLGNYSDEPCIGQEYQIIAQING
NYARLLDTVPLDYEF LATEGKSVC

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FIGURE 941

AAAACAGCTAAGCCAGGCGCGCAAGGAGTTGGAGACCCTGCGGGAGCGCTTCAGCGAATCGACCGCCATGGGCGC
CTCCAGGCGTCCCCCAGAGCCTGAGAAAGCGCCTCCCGCTGCCCCGACGCGGCCCTCGGCCCTGGAGCTGAAGGT
GGAGGAGCTGGAGGAGAAGGGTTAATCCGTATTCTGCGGGGGCCGGGGGATGCTGTCTCCATCGAGATCCTCCC
CGTCGCTGTGGCAACTCCGAGCGGCGGTGATGCTCCGACTCCGGGGGTGCCGACCGGTCCCCCAGCCCAGATCT
CGCACCTGCAGCAGAGCCGGCTCCCGGAGCAGCGCCACCGCCGCCGCCCCCACTGCCCCGGCCTCCCCCTCCCCGCA
GGAAGCCCCGCCCTCTGCGCCCCCACAGGCCCGCCTCTCCCTGGCAGCCCGGAGCCCCCGCCTGCGCCGCCGCT
GCCCCGAGACCTGCGGCCCCCAACCCCGCCACCGCCACCACCTCCGGGCACTGACGGGCCCGGTGCCCTCCGCCGCC
GCCGCCGCCGCCGCCGCTCCCGGAGGTCTCTGATGCCCTAGGAAGACGCGACTCAGAATTGGGCCCAGGAGT
GAAGGCCAAGAAGCCCATCCAGACTAAGTTCCGAATGCCCACTCTTGAAGTGGGTGGCACTGAAACCCAGCCAGAT
CACCGGCACTGTCTTCACAGAGCTCAATGATGAGAAGGTGCTGCAGGAGCTAGACATGAGTGATTTTGAGGAACA
GTTCAAGACCAAGTCCCAAGGCCCCAGCCTGGACCTCAGCGCTCTCAAGAGTAAGGCAGCCCAGAAGGCCCCAG
CAAGGCGACACTCATTGAGGCCAACCGGGCCAAGAACTTGGCCATCACCTGCGGAAGGGCAACCTGGGGGCCGA
GCGCATCTGCCAAGCCATTGAGGCGTACGACCTGCAGGCTCTGGGCCTGGACTTCTGGAGCTGCTGATGCGCTT
CCTGCCACAGAGTATGAGCGCAGCCTCATCACCCGCTTTGAGCGGGAGCAGCGGCCAATGGAGGAGCTGTCAGA
GGAGGACCGCTTCATGCTATGCTTCAGCCGCATCCCGCGCTGCCGGAGCGCATGACCACACTCACCTTCCTGGG
CAACTTCCCGGACACAGCCCAGCTGCTCATGCCGCAACTGAATGCCATCATTGCAGCCTCAATGTCCATCAAGTC
CTCTGACAACTCCGCCAGATCCTGGAGATTGTCTGGCCTTTGGCAACTACATGAACAGTAGCAAGCGTGGGGC
AGCCTATGGCTTCCGGCTCCAGAGCCTGGATGCGCTGTTGGAGATGAAGTCGACTGATCGCAAGCAGACGCTGCT
GCACTACCTGGTGAAGGTCATTGCTGAGAAGTACCCGCAACTCACAGGCTTCCACAGCGACCTGCACTTCCTGGA
CAAGGCGGGCTCAGTGTCCCTGGACAGTGTCTGGCGGACGTGCGCTCCCTGCAGCGAGGCCTAGAGTTGACACA
GAGAGAGTTTGTGCGGCAGGATGACTGCATGGTGCTCAAGGAGTTCCTGAGGGCCAACCTCGCCCACCATGGACAA
GCTGCTGGCAGACAGCAAGACGGCTCAGGAGGCCTTTGAGTCTGTGGTGGAGTACTTCGGAGAGAACCCCAAGAC
CACATCCCCAGGCCTGTTCTTCTCCCTCTTTAGCCGCTTCATTAAGGCCTACAAGAAAGCTGAGCAGGAGGTGGA
ACAGTGGAAAAAAGAAGCCGCTGCCAGGAGGCAGGCGCTGATACCCCGGGCAAAGGGGAGCCCCCAGCACCCAA
GTCACCGCCAAAGGCCCGGCGGCCACAGATGGACCTCATCTCTGAGCTGAAACGGAGGCAGCAGAAGGAGCCACT
CATTTATGAGAGCGACCGTGATGGGGCCATTGAAGACATCATCACAGATCTGCGGAACCAGCCCTACATCCGCGC
AGACACAGGCCCGCCGAGTGCCCGTCCGGCTCCCCGGGGCCCCCACTGCAGGTACCTCCGACCTCTCGCTGTA
GCCGCTATTTCTGCAGGTGGATTCTGCAGGGGTGTGGGGCCGTGGACAGGCTGAGGCTCAAGGAAGGTGGTCCTC
AGCTCGGCTGGCCGGGAGCCCCCTCCTCCGCTGTGGCCCGCCTCAAACGGGCTGGTGCATCCTCCTCTTGGCCAC
AGAGGGCAGCATCGCCCGCCCCTTCCCCCAAATGCTGCTTGCAGCACCCACCCTAAAGCCCCCTCCAAATAGCCA
TACTTAGCCTCAGCAGGAGCCTGGCCTGTAACCTTATAAAGTGACCTCGCCCCGCAAGCCCCAGCCCCGAGGAC
CGTCCATGGACCTTATTTTTATATGAGATTAATAAAGATGTTTGCAAAAGAAAAAAA

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FIGURE 942

MPLLNWVALKPSQITGTVFTELNDEKVLQELDMSDFEEQFKTKSQGPSLDLSALKSKAAQKAPSKATLIEANRAK
NLAITLRKGNLGAERICQAIEAYDLQALGLDFLELLMRFLPTEYERSLITRFEREQRPMEELSEEDRFMLCFSRI
PRLPERMTTLTFLGNFPDTAQLLMPQLNAIIAASMSIKSSDKLRQILEIVLAFGNMNSSKRGAAYGFRQLQSLDA
LLEMKSTDRKQTLHLHYLVKVIAEKYPQLTGFFHSDLHFLDKAGSVSLDSVLADVRSRQGLQELTQREFVVRQDDCMV
LKEFLRANSPTMDKLLADSKTAQEAFAFESVVEYFGENPKTTSPGLFFSLFSRFIKAYKKAQEVEQWKKEAAAQEA
GADTPGKGEPPAPKSPPKARRPQMDLISELKRRQQKEPLIYESDRDGAIEDIITDLRNQPYIRADTGRRSARRRP
PGPPLQVTSDSL

GCAGCAGGACGGAGAGAGCCGCGCAGGCGCGGGCGCGCGGGGTGGGGCAGCCGAGCGCAGGCCCCCGATCCCCGG
CGGGCGCCCCCGGGCCCCCGCGCGCGCCCCGGCCTCCGGGAGACTGGCGCATGCCACGGAGCGCCCCCTCGGGCCG
CCGCCGCTCCTGCCCGGGCCCCCTGCTGCTGCTGCTGCTGCTGCGCCTGCGCCTGCTGCCCCAACTCGGCGCCCCGACTTCT
TCATGGTGTGCGGAGGTTCATGTTTCGCTCCTTAGCAGGCAAACGACTTTTCTCCTCGCCTCCTCGCCCCGCATGTT
CAGGACCAAACGATCTGCGCTCGTCCGGCGTCTCTGGAGGAGCCGTGCGCCCCGGCGGCGAGGACGAGGAGGAGGG
CGCAGGGGGAGGTGGAGGAGGAGGCGGAGCTGCGGGGAGAAGGGGCGACGGACAGCCGAGCGCATGGGGCCGGTGG
CGGCGGCCCGGGCAGGGCTGGATGCTGCGCTGGGCAAGGCGGTGCGAGGTGCCAAAGGTCACCACCATCCCCACCC
GCCAGCCGCGGGGCGCCGGCGCGGGCCGGGGGCGCCGAGGCGGATCTGAAGGCGCTCACGCACCTCGGTGCTCAAGAA
ACTGAAGGAGCGGCAGCTGGAGCTGCTGCTCCAGGCCGTGGAGTCCCGCGGCGGGACGCGCACCGCGTGCCTCCT
GCTGCCCGGGCCGCTGGACTGCGAGGCTGGGCCCCGGGGGCGCCCCGCCGGCGCGCAGCCTGCGCAGCCGCCCTCGTC
CTACTCGCTCCCCCTCCTGCTGTGCAAAGTGTTCAGGTGGCCGGATCTCAGGCATTCTCGGAAGTCAAGAGGCT
GTGTTGCTGTGAATCTTACGGGAAGATCAACCCCGAGCTGGTGTGCTGCAACCCCCATCACCTTAGCCGACTCTG
CGAACTAGAGTCTCCCCCCCCCTCCTTACTCCAGATACCCGATGGATTTTCTCAAACCAACTGCAGACTGTCCAGA
TGCTGTGCCTTCTCCTCGCTGAAACAGGGGGAACGAATTATCTGGCCCCCTGGGGGGCTTTCAGATTCCCAACTTCT
TCTGGAGCCTGGGGATCGGTACACTGGTGCCTGGTGGCATACTGGGAGGAGAAGACGAGAGTGGGGAGGCTCTA
CTGTGTCCAGGAGCCCTCTCTGGATATCTTCTATGATCTACCTCAGGGGAATGGCTTTTGCCTCGGACAGCTCAA
TTCGGACAACAAGAGTCAGCTGGTGCAGAAAGGTGCGGAGCAAATCGGCTGCGGCATCCAGCTGACGCGGGAGGT
GGATGGTGTGTGGGTGTACAACCGCAGCAGTTACCCCATCTTCATCAAGTCCGCCACACTGGACAACCCGGACTC
CAGGACGCTGTTGGTACACAAGGTGTTCCCCGGTTTCTCCATCAAGGCTTTCGACTACGAGAAGGCGTACAGCCT
GCAGCGGCCCAATGACCACGAGTTTATGCAGCAGCCGTGGACGGGCTTTACCGTGCAGATCAGCTTTGTGAAGGG
CTGGGGTCAGTGCTACACCCGCCAGTTCATCAGCAGCTGCCCGTGCTGGCTAGAGGTATCTTCAACAGCCGGTAA
GCCGCGTGCGGAGGGGACAGAGCGTGAGCTGAGCAGGCCACACTTCAAACCTACTTTGCTGCTAATATTTTCTCCTC
TGAGTGCTTGCTTTTTCATGCAAACCTCTTTGGTGCTTTTTTTTTTTGTTTGTGTTGGTTGGTTTTCTTCTTCTCGTCTC
CGTTTGTGTTCTGTTTTGTTTTGCTCTTTTGAGAAATAGCTTATGAAAAGAATTGTTGGGGGTTTTTTTTTGAAGAA
GGGGCAGGTATGATCGGCAGGACACCCTGATAGGAAGAGGGGAAGCAGAAATCCAAGCACCACCAAACACAGTGT
ATGAAGGGGGGGCGGTTCATCATTTTCACTTGTGTCAGGAGTGTGTGTGAGTGTGAGTGTGCGGCTGTGTGTGCACGCGT
GTGCAGGAGCGGCAGATGGGGAGACAACGTGCTCTTTGTTTTGTGTCTCTTATGGATGTCCCCAGCAGAGAGGTT
TGCAGTCCCAAGCGGTGTCTCTCCTGCCCCCTTGGACACGCTCAGTGGGGCAGAGGCAGTACCTGGGCAAGCTGGC
GGCTGGGGTCCCAGCAGCTGCCAGGAGCACGGCTCTGTCCCAGCCTGGGAAAGCCCCCTGCCCTCCTCTCCCTC
ATCAAGGACACGGGCTGTCCACAGGCTTCTGAGCAGCGAGCCTGCTAGTGGCCGAACCAGAACCAATTATTTTC
ATCCTTGTCTTATTCCCTTCTGCCAGCCCCCTGCCATTGTAGCGTCTTTCTTTTTTGGCCATCTGCTCCTGGATC
TCCCTGAGATGGGCTTCCCAAGGGCTGCCGGGGCAGCCCCCTCACAGTATTGCTACCCAGTGCCCTCTCCCTC
AGCCTCTCCCTGCTGCTGCTGCTGGTGACATCAGGTTTTTCCCGGACTTAGAAAACCAGCTCAGCACTGCCTGCTCC
CATCTGTGTGTTAAGCTCTGCTATTAGGCCAGCAAGCGGGGATGTCCCTGGGAGGGACATGCTTAGCAGTCCCC
TTCCCTCCAAGAAGGATTTGGTCCGTATAACCCAAGGTACCATCCTAGGCTGACACCTAACTCTTCTTTTCATTT
CTTCTACAACCTCATACACTCGTATGATACTTCGACACTGTTCTTAGCTCAATGAGCATGTTTAGACTTTAACATA
AGCTATTTTTTCTAACTACAAAGGTTTAAATGAACAAGAGAAGCATTCTCATTGGAAATTTAGCATTGTAGTGCTT
TGAGAGAGAAAGGACTCCTGAAAAAAAACCTGAGATTTATTAAGAAAAAAATGTATTTTATGTTATATATAAAT
ATATTATTACTTGTAATATAAAGACGTTTTATAAGCATCATTATTTATGTATTGTGCAATGTGTATAAACAAGA
AAAATAAAGAAAAGATGCACTTTGCTTTAATATAAATGCAAAATAACAAATGCCAAATTAAGAAAGATAAACACAA
GATTGGTGTTTTTTTCTATGGGTGTTATCACCTAGCTGAATGTTTTTCTAAAGGAGTTTATGTTCCATTAAACGA
TTTTTAAATGTACACTTGAAAAA

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FIGURE 944

MFRTKRSALVRRLWRSRAPGGEEDEEEGAGGGGGGGELRGEGATDSRAHGAGGGGPGRAGCCLGKAVRGAKGHHHP
HPPAAGAGAAGGAADLKALHTSVLKKLKERQLELLLQAVESRGGTRTACLLLPGRLCDRLGPGAPAGAQAQPP
SSYSLPLLLCKVFRWPDLRHSSEVKRLCCCESYGKINPELVCCNPHHLSRLCELESPPPPYSRYPMDFLKPADC
PDAVPSSAETGGTNYLAPGGLSDSQLLLEPGDRSHWCVVAYWEEKTRVGRLYCVQEPSLDIFYDLPOGNGFCLGQ
LNSDNKSQLVQKVRISKIGCGIQLTREVDGVVWVYNRSSYPIFIKSATLDNPDSRTLLVHKVFPGFSSIKAFDYEKAY
SLQRPNDHEFMQQPWGTGFTVQISFVKGWGQCYTRQFISSCPCWLEVIFNSR

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FIGURE 945

ATGGGCCCCGAAGCCTCCTCCTGCTGCTCTCAGGGGCCCTGGCCCTGACCGATACTTGGGCGGGCTCCCACTCC
TTGAGGTATTTACGACACCGCTGTGTGCGGGCCCGGCCGCGGGGAGCCCCGCTACATCGCCGTGGAGTACGTAGAC
GACACGCAATTCCTGCGGTTTCGACAGCGACGCCGCGATTCCGAGGATGGAGCCGCGGGAGCCGTGGGTGGAGCAA
GAGGGGCCCGCAGTATTGGGAGTGGACCACAGGGTACGCCAAGGCCAACGCACAGACTGACCGAGTGGCCCTGAGG
AACCTGCTCCGCCGCTACAACCAGAGCGAGGCTGGGTCTCACACCCTCCAGGGAATGAATGGCTGCGACATGGGG
CCCGACGGACGCCTCCTCCGCGGGTATCACCAGCACGCGTACGACGGCAAGGATTACATCTCCCTGAACGAGGAC
CTGCGCTCCTGGACCGCGGCGGACACCGTGGCTCAGATCACCCAGCGCTTCTATGAGGCAGAGGAATATGCAGAG
GAGTTCAGGACCTACCTGGAGGGCGAGTGCCTGGAGTTGCTCCGCAGATACTTGGAGAATGGGAAGGAGACGCTA
CAGCGCGCAGATCCTCCAAAGGCACACGTTGCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTGCTGG
GCCCTGGGCTTCTACCCTGCGGAGATCACGCTGACCTGGCAGCGGGATGGGGAGGAACAGACCCAGGACACAGAG
CTTGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCCGCTGTGGTGGTGCCTTCTGGAGAGGAA
CAGAGATACACATGCCATGTGCAGCACGAGGGGCTGCCCCAGCCCCTCATCCTGAGATGGGAGCAGTCTCCCCAG
CCCACCATCCCCATCGTGGGCATCGTTGCTGGCCTTGTTGTCCTTGGAGCTGTGGTCACTGGAGCTGTGGTTCGCT
GCTGTGATGTGGAGGAAGAAGAGCTCAGATAGAAACAGAGGGAGCTACTCTCAGGCTGCAGTCACTGACAGTGCC
CAGGGCTCTGGGGTGTCTCTCACAGCTAATAAAGT**TGA**GACAGCTTCCTTGTGTGGGACTGAGAAGCAAGATAT
CAATGTAGCAGAATTGCACTTGTGCCTCACGAACATACATAAATTTAAAAATAAAGAATAAA

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FIGURE 946

MAPRSLLLLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIAVEYVDDTQFLRFDSDAaiprMEPREPWVEQ
EGPQYWEWTTGYAKANAQTDRVALRNLLRRYNQSEAGSHTLQGMNGCDMGPDGRLLRGYHQHAYDGKDYISLNED
LRSWTAADTVAQITQRFYEAEYAEFRTYLEGECLELLRRYLENGKETLQRADPPKAHVAHHPISDHEATLRCW
ALGFYPAEITLTWQRDGEEQTQDTELVEITRPAGDGTQKWAAVVVP SGEEQRYTCHVQHEGLPQPLILRWEQSPQ
PTIPIVGIVAGLVVLGAVVTGAVVAAMWRKKSSDRNRGSYSQAAVTDSAQGSVSLTANKV

1073/2825
FIGURE 947

TTACTCAATCTCAGGCATTTATTCATAGCAATGCAAGAACTAATACAAATTGTAAAAAGTATAGTATAGTAAATA
CATAAACCAGTAACATAGTCATTTATTGTCATTATTAAATATTATGTACAGGACATAATTGCTGTACTTTTACTT
GACTGGCAGTGCAATAGATTTGTTTACACCAGTATCACCACAAACACGTGAGGATGTATTGCAATACATATGTCA
TCACTAGGCTATGACATCACTAGGCGATAGAAATTTTTTCAGCTCCATTATAATCTTATGGGACCACTATCATATA
TG TAGTCTACCACTGACTGAAATGTCATTATGTGGCATAACATAATGTAGAGTTTTCAAGGGTACCTTAAAGAACA
TCTATAAATACATACACACACAAACACATTTATACACCCAGTAGTCAAAATGATTTTAXAAATCACGTTAGCTCA
AAAAGXTAATTAAC TTTTATTATTTCATTAAAAATGAGCTTTCTAAAXTATTAGTAXATTTCTTTTAAAG

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FIGURE 948

CGCACTCCCTGCTGGGTGAGCAGCACTGTAAAG**ATGA**AAGCTGGCTAACTGGTACTGGCTGAGCTCAGCTGTTCTT
GCCACTTACGGTTTTTTTTGGTTGTGGCAAACAATGAAACAGAGGAAATTAAAGATGAAAGAGCAAAGGATGTCTGC
CCAGTGAGACTAGAAAAGCAGAGGGAAATGCGAAGAGGCAGGGGAGTGCCCCCTACCAGGTAAGCCTGCCCCCTTG
ACTATTCAGCTCCCGAAGCAATTCAGCAGGATCGAGGAGGTGTTCAAAGAAGTCCAAAACCTCAAGGAAATCGTA
AATAGTCTAAAGAAATCTTGCCAAGACTGCAAGCTGCAGGCTGATGACAACGGAGACCCAGGCAGAAACGGACTG
TTGTTACCCAGTACAGGAGCCCCGGGAGAGGTTGGTGATAACAGAGTTAGAGAATTAGAGAGTGAGGTTAACAAG
CTGTCCCTCTGAGCTAAAGAATGCCAAAGAGGAGATCAATGTACTTCATGGTCGCCTGGAGAAGCTGAATCTTGTA
AATATGAACAACATAGAAAATTATGTTGACAGCAAAGTGGCAAATCTAACATTTTGTGTCAATAGTTTGGATGGC
AAATGTTCAAAGTGTCCAGCCAAGAACAATAACAGTCACTCCAGTTCAACATCTAATATATAAAGATTGCTCT
GACTACTACGCAATAGGCAAAGAAGCAGTGAGACCTACAGAGTTACACCTGATCCCAAAAATAGTAGCTTTGAA
GTTTACTGTGACATGGAGACCATGGGGGGAGGCTGGACAGTGCTGCAGGCACGTCTCGATGGGAGCACCAACTTC
ACCAGAACATGGCAAGACTACAAAGCAGGCTTTGGAAACCTCAGAAGGGAATTTTGGCTGGGGAACGATAAAATT
CATCTTCTGACCAAGAGTAAGGAAATGATTCTGAGAATAGATCTTGAAGACTTTAATGGTGTGGAATATATGCC
TTGTATGATCAGTTTTATGTGGCTAATGAGTTTCTCAAATATCGTTTACACGTTGGTAACTATAATGGCACAGCT
GGAGATGCATTACGTTTCAACAAACATTACAACCACGATCTGAAGTTTTTCACTCCAGATAAAGACAATGAT
CGATATCCTTCTGGGAAGTGTGGGCTGTACTACAGTTCAGGCTGGTGGTTTGATGCATGTCTTTCTGCAAACTTA
AATGGCAAATATTATACCAAAAATACAGAGGTGTCCGTAATGGGATTTTCTGGGGTACCTGGCCTGGTGTAAGT
GAGGCACACCTTGGTGGCTACAAGTCCTCCTTCAAAGAGGCTAAGATGATGATCAGACCCAAGCACTTTAAGCCA
TAAATCACTCTGTTTATTCCTCCAGGTATTGTTATCTAATAGGGCAATTAATTCCTTCAGCACTTTAGAATATG
CCTTGTTTCATATTTTTCATAGCTAAAAAATGTTTGACATCCTTTGAGATATTTTATTACTAAAATCTGCC

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FIGURE 949

MKLANWYWLSSAVLATYGFLVVANNETEEIKDERAKDVCPVRLESRGKCEEAGECPYQVSLPPLTIQLPKQFSRI
EEVFKEVQNLKEIVNSLKKSCQDCKLQADDNGDPGRNGLLLPSTGAPGEVGDNRVRELESEVNKLSSELKNAKEE
INVLHGRLEKLNLVNMNNIENYVDSKVANLTFVVNSLDGKCSKCPSQEQIQSRPVQHLYKDCSDYYAIGKRSSE
TYRVTPDPKNSSFEVYCDMETMGGGWTVLQARLDGSTNFTRTWQDYKAGFGNLRREFWLGNDKIHLLTKSKEMIL
RIDLEDFNGVELYALYDQFYVANEFLLKYRLHVGNYNGTAGDALRFNKHYNHDLKFFTTDPDKDNDRYPSGNCGLYY
SSGWWFDACLSANLNGKYYHQKYRGVRNGIFWGTWPGVSEAHPPGGYKSSFKEAKMMIRPKHFKP

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FIGURE 950

GCCCCGCCGCCGGCAGTGGACCGCTGTGCGCGAACCCTGAACCCTACGGTCCCGACCCGCGGGCGAGGCCGGGTA
CCTGGGCTGGGATCCGGAGCAAGCGGGCGAGGGCAGCGCCCTAAGCAGGCCCGGAGCG**ATGGC**AGCCTTGATGAC
CCCCGGAACCGGGGGCCCCACCCGCGCCTGGTGACTTCTCCGGGGAAGGGAGCCAGGGACTTCCCGACCCTTCGCC
AGAGCCCAAGCAGCTCCCGGAGCTGATCCGCATGAAGCGAGACGGAGGCCGCCTGAGCGAAGCGGACATCAGGGG
CTTCGTGGCCCGCTGTGGTGAATGGGAGCGCGCAGGGCGCACAGATCGGGGCCATGCTGATGGCCATCCGACTTCG
GGGCATGGATCTGGAGGAGACCTCGGTGCTGACCCAGGCCCTGGCTCAGTCGGGACAGCAGCTGGAGTGGCCAGA
GGCCTGGCGCCAGCAGCTTGTGGACAAGCATTCCACAGGGGGGTGTGGGTGACAAGGTCAGCCTGGTCCCTCGCACC
TGCCCTGGCGGCATGTGGCTGCAAGGTGCCAATGATCAGCGGACGTGGTCTGGGGCACACAGGAGGCACCTTGGA
TAAGCTGGAGTCTATTCCTGGATTCAATGTATCCAGAGCCCAGAGCAGATGCAAGTGCTGCTGGACCAGGCCGG
CTGCTGTATCGTGGGTGAGAGTGAGCAGCTGGTTCCCTGCGGACCGAATCCTATATGCAGCCAGAGATGTGACAGC
CACCGTGGACAGCCTGCCACTCATCACAGCCTCCATTCTCAGTAAGAACTCGTGGAGGGGCTGTCCGCTCTGGT
GGTGGACGTTAAGTTCGGAGGGGGCGCCGTCTTCCCCAACCCAGGAGCAGGCCCGGGAGCTGGCAAAGACGCTGGT
TGGCGTGGGAGCCAGCCTAGGGCTTCGGGTGCGGGCAGCGCTGACCGCCATGGACAAGCCCCTGGGTGCTGCGT
GGGCCACGCCCTGGAGGTGGAGGAGGCGCTGCTCTGCATGGACGGCGCAGGCCCGCCAGACTTAAGGGACCTGGT
CACCACGCTCGGGGGCGCCCTGCTCTGGCTCAGCGGACACGCGGGGACTCAGGCTCAGGGCGCTGCCCCGGGTGGC
CGCGGCGCTGGACGACGGCTCGGCCCTTGCCGCTTCGAGCGGATGCTGGCGGCGCAGGGCGTGGATCCCGGTCT
GGCCCGAGCCCTGTGCTCGGGAAGTCCCGCAGAACGCCGGCAGCTGCTGCCTCGCGCCCGGGAGCAGGAGGAGCT
GCTGGCGCCCGCAGATGGCACCGTGGAGCTGGTCCGGGCGCTGCCGCTGGCGCTGGTGTGCTGCACGAGCTCGGGGC
CGGGCGCAGCCGCGCTGGGGAGCCGCTCCGCCTGGGGGTGGGCGCAGAGCTGCTGGTGCACGTGGGTGAGAGGCT
GCGCCGTGGGACCCCCCTGGCTCCGCGTGCACGGGACGGCCCCGCGCTCAGCGGCCCGCAGAGCCGCGCCCTGCA
GGAGGCGCTCGTACTCTCCGACCGCGCGCCATTGCGCGCCCCCTCGCCCTTCGCAGAGCTCGTTCTGCGCGCCGA
GCAAT**TAA**AGCTCCTTTGCCGCGAAA

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FIGURE 951

MAALMTPGTGAPPAPGDFSGEGSQGLPDPSPPEPKQLPELIRMKRDGGRLSEADIRGFVAAVVNGSAQGAQIGAML
MAIRLRGMDLEETSVLTQALAQSGQQLWPEAWRQQLVDKHSTGGVGDVSLVLAPALAACGCKVPMISGRGLGH
TGGTLDKLESIPGFNVIQSPEQMQVLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDSLPLITASILSKKLVE
GLSALVVDVKFGGAAVFPNQEQARELAKTLVGVGASLGLRVAAALTAMDKPLGRCVGHAEVEEALLCMDGAGFP
DLRDLVTTLGGALLWLSGHAGTQAQGAARVAAALDDGSALGRFERMLAAQGVDPLARALCSGSPAERRQLLPRA
REQEELLAPADGTVELVRALPLALVLHELGAGRSRAGEPLRLGVGAELLVDVGQRLRRGTPWLRVHRDGPALSGP
QSRALQEALVLSRAPFAAPSPFAELVLPPQQ

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FIGURE 952

AGAACGCAGACCAGCCCAAGCTGACAGCTTGAGTATGCCTTCTTCTGCTGCCTGGTTTTGGGGGCTGTATGACGT
ACTGGTCGGTAGTAAAGATTAATATGTAAGAAATGTGGAGCTAGGATCAAGTCATACTCCACAGCCTGCCTGGCA
AACTATGTTTTACTTCTGACTTTGCTCTCTCGCTGAGAACATTAATCTGTCAAGCTGGCGGGCTCCTTTGATAGC
AACTTTCCAGGGGC**ATG**ATGTGGCAATGCCACCTCTCAGCCCAGGACTACCGCTATTACCCCGTGGACGGCTAC
TCCCTGCTTAAACGCTTCCCTCTTCATCTCTTACAGGACCCAGATGCCCTGTCCAAACAGTGGGACAATGGTTG
GAAAGCATTGGGCTACCTCAGTACGAGAACCACCTGATGGCTAATGGATTGACAATGTGCAGTTTATGGGAAGC
AATGTTATGGAAGATCAGGATTTGTTGGAAATTGGAATCCTTAATTCTGGGCACAGACAAAGAATTCTACAGGCA
ATCCAGCTCCTTCCAAAGATGAGACCCATTGGGCATGATGGCTACCATCCACCTCTGTAGCTGAGTGGCTGGAT
TCCATTGAACTGGGCGACTACACCAAAGCCTTTCTAATTAATGGCTACACTTCGATGGACCTGTTGAAAAAATC
TGGGAGGTTGAACTTATTAATGTTTTAAAAATCAATTTGATTGGCCACAGGAAACGTATTTTGGCATCTCTGGGA
GACAGGCTGCACGACGATCCCCACAGAAGCCCCCTCGGTCCATCACCTCAGGACAGGAGACTGGGGAGAACCT
TCCATTACCTTGCGACCTCCGAATGAAGCCACAGCCTCTACCCCGGTACAGTACTGGCAGCATCACCCAGAAAAG
CTTATCTTCCAGTCGTGTGATTACAAAGCTTTTTATTAGGTTCTATGCTGATAAAAGAGCTTAGGGGGACAGAA
TCAACCCAAGATGCTTGTGCAAAAATGCGGGCTAACTGTCAGAAGTCTACAGAGCAAATGAAGAAGGTCCCTACT
ATTATTCTTTCTGTCTCATATAAAGGAGTCAAATTTATTGATGCAACAAATAAGAACATAATTGCTGAGCATGAA
ATTGTAATATCTCCTGTGCTGCCCAGGACCCAGAAGACCTCTCAACATTTGCCTATATCACAAAAGATTTGAAG
TCTAATCACCCTACTGTGTCATGTGTTTACTGCCTTTGATGTGAATTTAGCCTATGAAATCATCCTAACCCTGGGA
CAGGCATTCGAAGTCGCTTACCAGCTAGCACTACAAGCAAGAAAAGGGGACACTCCTCCACACTTCCAGAAAGC
TTTGAAAACAAACCTCCAAACCCATCCCCAAGCCCCGCGTTAGCATTCGCAAGTCCGTGGATCTTCTTCATGCC
AGCCATACCGGGCAGGAACCATCAGAGAGACACACTGAGGAGGCACTCAGAAAATTT**TG**ATAGAATTGAATTTAC
ATATAGCTGATAAAGCCTAAATAGAAAGGTTGATGTATTTAGCTTGAATCCTTCACTTTAGTGGTCTAATCAACA
GATAAATGACAAGCAAAGAATGAAACAATCCAAAAATGTTTTTCAAACAATTTTGTGAATTTTATTTTACAAA
AATTTTTTAAATTCATATTTTAAATGTATACCAAGGCAAAAAATCATATAAGCTATATCATAAATACAAGAGT
TTCAAAACATACAAGAGACATATAATG

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FIGURE 953

MMWQCHLSAQDYRYYPVDGYSLKRFPLHPLTGPRCPVQTVGQWLESIGLPQYENHLMANGFDNVQFMGSNVMED
QDLLEIGILNSGHRQRILQAIQLLPKMRPIGHDGYHPTSVAEWLDSIELGDYTKAFLINGYTSMDLLKKIWEVEL
INVLKINLIGHRRILASLGDR LHDDPPQKPPRSITLRTGDWGEPSITLRPPNEATASTPVQYWQHHPEKLIFQS
CDYKAFYLGSM LIKE LRGTSTQDACAKMRANCQKSTEQMKKVPTIILSVSYKGVKFIDATNKNI IAEHEIRNIS
CAAQDPEDLSTFAYITKDLKSNHHYCHVFTAFDVNLAYEIIILTLGQAFEVAYQLALQARKGGHSSTLPESFENKP
SKPIPKPRVSIRKSVDLLHASHTGQEP SERHTEEALRKF

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FIGURE 954A

TGCATGAAGACAAAAGGTCCTGTGCTCACCTGGGACCCTTCTGGACGTTGCCCTGTGTACCTCTTCGACTGCCTG
TTCATCTACGACGAACCCCGGGTATTGACCCAGACAACAATGCCACTTCATATTGGGGACTTCGTCTGGGATTC
CAAGGTGCATTTCATTGCAAAGTTCCTTAAATATTTTCTCACTGCTTCCTACTAAAGGACGGACAGAGCATTGT
CTTCAGCCACATACTTTCCTTCCACTGGCCAGCATTCTCCTCTATTAGACTAGAAGTGTGGATAAACCTCAGAAA
ATGGCCACCCAGCAGAAAGCCTCTGACGAGAGGATCTCCAGTTTGATCACAATTTGCTGCCAGAGCTGTCTGCT
CTTCTGGGCCTAGATGCAGTTCAGTTGGCAAAGGAAGCTAGAAGAAGAGGAGCAGAAGGAGCGAGCAAAAATGCAG
AAAGGCTACAACCTCTCAAATGCGCAGTGAAGCAAAAAGGTTAAAGACTTTTGTGACTTATGAGCCGTACAGCTCA
TGGATACCACAGGAGATGGCGGCCGCTGGGTTTTACTTCACTGGGGTAAAATCTGGGATTTCAGTGCTTCTGCTGT
AGCCTAATCCTCTTTGGTGGCGGCCCTCAGGAGACTCCCCATAGAAGACCACAAGAGGTTTTATCCAGATTGTGGG
TTCCTTTTGAACAAGGATGTTGGTAACATTGCCAAGTACGACATAAGGGTGAAGAATCTGAAGAGCAGGCTGAGA
GGAGGTAAAATGAGGTACCAAGAAGAGGAGGCTAGACTTGCGTCTTCAGGAAGTGGCCATTTTATGTCCAAGGG
ATATCCCTTGTGTGCTCTCAGAGGCTGGCTTTGTCTTTACAGGTAAACAGGACACGGTACAGTGTTTTTCTGT
GGTGGATGTTTAGGAAATTGGGAAGAAGGAGATGATCCTTGAAGGAACATGCCAAATGGTTCCCAAATGTGAA
TTTTCTCGGAGTAAGAAATCCTCAGAGGAAATTACCCAGTATATTCAAAGCTACAAGGGATTGTGTACATAACG
GGAGAACATTTTGTGAATTCCTGGGTCCAGAGAGAATTACCTATGGCATCAGCTTATTGCAATGACAGCATCTTT
GCTTACGAAGAACTACGGCTGGACTCTTTTAAAGGACTGGCCCCGGGAATCAGCTGTGGGAGTTGCAGCACTGGCC
AAAGCAGGTCTTTTCTACACAGGTATAAAGGACATCGTCCAGTGCTTTTCTGTGGAGGGTGTTTAGAGAAATGG
CAGGAAGGTGATGACCCATTAGACGATCACACCAGATGTTTTCCCAATTGTCCATTTCTCCAAAATATGAAGTCC
TCTGCGGAAGTGACTCCAGACCTTCAGAGCCGTGGTGAACCTTTGTGAATTACTGGAACCACAAGTGAAAGCAAT
CTTGAAGATTCAATAGCAGTTGGTCCTATAGTGCCAGAAATGGCACAGGGTGAAGCCCAGTGTTTTCAAGAGGCA
AAGAATCTGAATGAGCAGCTGAGAGCAGCTTATACCAGCGCCAGTTTCCGCCACATGTCTTTGCTTGATATCTCT
TCCGATCTGGCCACGGACCACTTGCTGGGCTGTGATCTGTCTATTGCTTCAAAACACATCAGCAAACCTGTGCAA
GAACCTCTGGTGCTGCCTGAGGTCTTTGGCAACTTGAACCTCTGTCAATGTGTGTGGAGGGTGAAGCTGGAAGTGA
AAGACGGTCCTCCTGAAGAAAATAGCTTTTCTGTGGGCATCTGGATGCTGTGCCCTGTTAAACAGGTTCCAGCTG
GTTTTCTACCTCTCCCTTAGTTCCACCAGACCAGACGAGGGGCTGGCCAGTATCATCTGTGACCAGCTCCTAGAG
AAAGAAGGATCTGTTACTGAAATGTGCATGAGGAACATTATCCAGCAGTTAAAGAATCAGGTCTTATTCCTTTTA
GATGACTACAAAGAAATATGTTCAATCCCTCAAGTCATAGGAAAACCTGATTCAAAAAAACCCTTATCCCGGACC
TGCCTATTGATTGCTGTCCGTACAAACAGGGCCAGGGACATCCGCCGATACCTAGAGACCATTCTAGAGATCAAA
GCATTTCCCTTTTATAATACTGTCTGTATATTACGGAAGCTCTTTTACATAATATGACTCGTCTGCGAAAGTTT
ATGGTTTACTTTGGAAAGAACCAGTTTGCAGAAGATACAGAAAACCTCCTCTCTTTGTGGCGGCGATCTGTGCT
CATTGGTTTCAGTATCCTTTTGACCCATCCTTTGATGATGTGGCTGTTTTCAAGTCCTATATGGAACGCCTTTCC
TTAAGGAACAAAGCGACAGCTGAAATCTCAAAGCAACTGTGTCCTCCTGTGGTGAGCTGGCCTTGAAAGGGTTT
TTTTCATGTTGCTTTGAGTTTAAATGATGATGATCTCGCAGAAGCAGGGGTTGATGAAGATGAAGATCTAACCATG
TGCTTGATGAGCAAATTTACAGCCCAGAGACTAAGACCATTCTACCGGTTTTTAAGTCCTGCCTTCCAAGAATTT
CTTGCGGGGATGAGGCTGATTGAACTCCTGGATTAGATAGGCAGGAACATCAAGATTTGGGACTGTATCATTTG
AAACAAATCAACTCACCCATGATGACTGTAAGCGCCTACAACAATTTTTTGAAGTATGTCTCCAGCCTCCCTTCA
ACAAAAGCAGGGGCCAAAATTTGTGTCTCATTTGCTCCATTTAGTGGATAACAAAGAGTCATTGGAGAATATATCT
GAAAATGATGACTACTTAAAGCACCAGCCAGAAATTTCACTGCAGATGCAGTTACTTAGGGGATTGTGGCAAAT
TGTCCACAAGCTTACTTTTCAATGGTTTTCAGAACATTTACTGGTTCTTGCCCTGAAAACCTGCTTATCAAAGCAAC
ACTGTTGCTGCGTGTTCTCCATTTGTTTTGCAATTCCTTCAAGGGAGAACACTGACTTTGGGTGCGCTTAACTTA
CAGTACTTTTTTCGACCACCCAGAAAGCTTGTCAATTGTTGAGGAGCATCCACTTCCCAATACGAGGAAATAAGACA
TCACCCAGAGCACATTTTTTCAGTTCTGGAAACATGTTTTGACAAATCACAGGTGCCAACTATAGATCAGGACTAT
GCTTCTGCCCTTTGAACCTATGAATGAATGGGAGCGAAATTTAGCTGAAAAAGAGGATAATGTAAAGAGCTATATG
GATATGCAGCGCAGGGCATCACCAGACCTTAGTACTGGCTATTGGAACTTTCTCCAAAGCAGTACAAGATTCCC
TGTCTAGAAGTCGATGTGAATGATATTGATGTTGTAGGCCAGGATATGCTTGAGATTCTAATGACAGTTTTCTCA
GCTTACAGCGCATCGAACTCCATTTAAACCACAGCAGAGGCTTTATAGAAAGCATCCGCCAGCTCTTGAGCTG
TCTAAGGCCTCTGTACCAAGTGCTCCATAAGCAAGTTGGAACCTCAGCGCAGCCGAACAGGAAGTCTTCTCACC
CTGCCTTCCCTGGAATCTCTTGAAGTCTCAGGGACAATCCAGTCACAAGACCAATCTTTCTAATCTGGATAAG

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FIGURE 954B

TTCTGTGCCTGAAAGAACTGTCTGTGGATCTGGAGGGCAATATAAATGTTTTTTCAGTCATTCTGAAGAATTT
CCAAACTTCCACCATATGGAGAAATTATTGATCCAAATTTTCAGCTGAGTATGATCCTTCCAAACTAGTAAAATTA
ATTCAAAATTTCTCCAAACCTTCATGTTTTCCATCTGAAGTGTAACCTCTTTTCGGATTTTGGGTCTCTCATGACT
ATGCTTGTTTTCTGTAAAGAACTCACAGAAATTAAGTTTTTCGGATTCAATTTTTCAAGCCGTCCCATTTGTTGCC
AGTTTGCCAAATTTTATTTCTCTGAAGATATTAATCTTGAAGGCCAGCAATTTCTGTATGAGGAAACATCAGAA
AAATTTGCCTACATTTTAGGTTCTCTTAGTAACCTGGAAGAATTGATCCTTCTACTGGGGATGGAATTTATCGA
GTGGCCAAACTGATCATCCAGCAGTGTCAGCAGCTTCATTGTCTCCGAGTCCTCTCATTTTTTCAAGACTTTGAAT
GATGACAGCGTGGTGGAAATTGCCAAAGTAGCAATCAGTGGAGGTTTCCAGAACTTGAGAACCTAAAGCTTTCA
ATCAATCACAAGATTACAGAGGAAGGATACAGAAATTTCTTCAAGCACTGGACAACATGCCAAACTTGCAGGAG
TTGGACATCTCCAGGCATTTACAGAGTGTATCAAAGCTCAGGCCACAACAGTCAAGTCTTTGAGTCAATGTGTG
TTACGACTACCAAGGCTCATTAGACTGAACATGTAAAGTTGGCTCTTGATGCAGATGATATTGCATTGCTTAAT
GTCATGAAAGAAAGACATCCTCAATCTAAGTACTTAACTATTCTCCAGAAATGGATACTGCCGTTCTCTCCAATC
ATTCAGAAATAAAAGATTAGCTAAAACTGCTGAATCAATAATTTGTCTTGGGGCATATTGAGGATGTAAAAAA
AGTTGTTGATTAATGCTAAAAACCAATTATCCAAATTTATTTTATTAAATATTGCATACAAAAGAAAATGTGTA
AGGCTTGCTAAAAAACAAAACAAAACACAGTCCTGCATACTCACCACCAAGCTCAAGAAATAAATCATCA
CCAATACCTTTGAGGTCCCTGAGTAATCCACCCAGCTAAAGGCCAAACCCTTCAATCAAGTTTATACAGCAAACC
CTCCATTGTCCATGGTCAACAGGGAAGGGGTTGGGGACAGGTCTGCCAATCTATCTAAAAGCCACAATATGGAAG
AAGTATTCAATTTATATAATAAATGGCTAACTTAACGGTTGAATCACTTTCATACATGGATGAAACGGGTTAAC
ACAGGATCCACATGAATCTTCTGTGGGCCAAGAGATGTTCTTAATCCTTGTAAGACCTGTTTTCTATATTGAAC
TAGCTTTGGTACAGTAGAGTTAACTTACTTTCCATTTATCCACTGCCAATATAAAGAGGAAACAGGGGTTAGGGA
AAAATGACTTCATTCCAGAGGCTTCTCAGAGTTCAACATATGCTATAATTTAGAATTTTCTTATGAATCCACTCT
ACTTGGGTAGAAAATATTTTATCTCTAGTGATTGCATATTATTTCCATATCATAGTATTTCATAGTATTATATTT
GATATGAGTGTCTATATCAATGTCAGTGTCCAGAATTTTCGTTCTACCAGTTAAGTAGTTTTCTGAACGGCCAGA
AGACCATTGAAATTCATGATACTACTATAAGTTGGTAAACAACCATACTTTTATCCTCATTTTTTATTCTCACTA
AGAAAAAAGTCAACTCCCCTCCCCTTGCCCAAGTATGAAATATAGGGACAGTATGTATGGTGTGGTCTCATTTGT
TTAGAAAACCACTTATGACTGGGTGCGGTGGCTCACACCTGTAATCCCAGCACTTTGGGAGGCTGAGGCGGGCGA
ATCATTTGAGGTGAGGAATTGAGACCAGCCTGGCCAGCATGGTGAAACCCCATCTCTACTAAAAATACAAAAAT
TAGCCAGGTGTGGTGGCACATGCCTGTAGTCCCAGCCACTAGGGCGGCTGAGACGCAAGACTTGCTTGAACCCGG
GAGGCAGAGGTTGCAGTGAGCCAAGATGGCGCCACTGCATTCCAGCCTGGGCAACAGAGCAAGACCCTGTCTGTC
TCAAAACAAAAACAAAACCACTTATATTGCTAGCTACATTAAGAATTTCTGAATATGTTACTGAGCTTGCTTGT
GGTAACCATTTATAATATCAGAAAGTATATGTACACCAAAACATGTTGAACATCCATGTTGTACAACCTGAAATAT
AAATAATTTTGTCAATTATACCTAAATAAACTGGAAAAAATTTCTGGAAGTTTATATCTAAAAATGTTAATAG
TGCGTACCTCTAGGAAGTGGGCCTGGAAGCCATTCTACTTTTCAGTCTCTCCATTCTGTACTGTTTTTTGTTT
TACTTTCGTGCCTGCATTATTTTTCTATTTAAACAAAAATAAATCTAGTTTAGCACT

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FIGURE 955

MATQQKASDERISQFDHNLLPELSALLGLDAVQLAKELEEEEQKERAKMQKGYNSQMRSEAKRLKTFVITYEPYSS
WIPQEMAAAGFYFTGVKSGIQCFCCSLILFGAGLTRLP IEDHKRFHPDCGFLLNKDVGNIAKYDIRVKNLKSRLR
GGKMRYQEEEARLASFRNWPFYVQGISPVLSEAGFVFTGKQDTVQCFSCGGCLGNWEEGDDPWKEHAKWFPKCE
FLRSKKSSEEITQYIQSYKGFVDITGEHFVNSWVQRELP MASAYCND SIFAYEELRLDSFKDWPRESAVGVAALA
KAGLFYTG IKDIVQCFSCGGCLEKWQEGDDPLDDHTRCFPNCPFLQNMKSSAEVTPDLQSRGELCELLETTSSEN
LED SIAVGPIVPEMAQGEAQWFQEAKNLNEQLRAAYTSASFRHMSLLDISSDLATDHL LGCDLSIASKHISKPVQ
EPIVLPEVFGNLNSVMCVEGEAGSGKTVLLKKIAFLWASGCCPLLNRFLVLYLSLSTRPDEGLASIICDQLLE
KEG SVTEMCMRNI IQQLKNQVLFLLDDYKEICSIPQVIGKLIQKNHLSRTCLLIAVRTNRARDIRRYLETILEIK
AFPFYNTVCILRKLF SHNMTRLRKFMVYFGKNQSLQKI QKTPLFVA AICAHWFQYFPDPSFDDVAVFKSYMERLS
LRNKATAEILKATVSSCGELALKGFFSCCFEFNDDDLAEAGVDEDEDLTMC LMSKFTAQRLRPFYRFLSPAQEF
LAGMRLIELLDSRQEHQDLGLYHLKQINSPM MTVSAYNNFLNYVSSLPSTKAGPKIVSHLLHLVDNKESLENIS
ENDDYLKHQPEISLQMQLLRGLWQICPQAYFSMVSEHLLVLALKTAYQSN TVAACSPFVLQFLQGRITLTGALNL
QYFFDHPESLSLLRSIHFP IIRGNKTS PRAHFSVLETCFDKSQVPTIDQDYASAFEP MNEWERNLAEKEDNVKSYM
DMQRRASPD LSTGYWKLSPKQYKIPC LEVDVNDIDVVGQDMLEILMTVFSASQRIELHLNHSRGFTIESIRPALEL
SKASVTKCSISKLELSAAEQELLLTLP SLESLEVSGTIQSQDQIFPNLDKFLCLKELSVDLEGNINVF SVIPEEF
PNFHHMEKLLIQISAEYDPSKLVKLIQNSPNLHV FHLKCNFFSDFGSLMTMLVSCCKLTEIKFSDSFFQAVPFVA
SLPNFISLKI LNLEGQQFPDEETSEKFAYILGSLSNLEELILPTGDGIYRVAKLIIQQCQQLHCLRVLSFFKTLN
DDSVVEIAKVAISGGFQKLENLKL SINHKITEEGYRNFFQALDNMPNLQELDISRHFTECIKAQATT VKSLSQCV
LRLPRLIRLNLMSWLLDADDIALLNVMKERHPQSKYLTILQKWILPFSP IIQK

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FIGURE 956

TCCCAGCTGCGCGTCGTCAGTCCCGACGCGAGAAGGGCTGGAGTCGGCGTCCAGCCTAGAGCCCCGGTGGGAGCC
AGGCCGGGACGCGTGCACCATGCCCTACCTGCTCATCAGCACCCAGATCCGCATGGAGGTGGGCCCCACTATGGT
GGGCGATGAACAGTCGGATCCAGAGCTGATGCAGCATCTGGGGGCTTCAAAGAGAAGAGCCTTGGGAAACAACCTT
TTATGAATACTACGTCGATGACCCTCCCCGCATAGTCCTGGACAAGCTGGAACGCAGGGGCTTCCGTGTGCTGAG
CATGACGGGGGTGGGCCAGACGCTGGTGTGGTGTCTGCACAAGGAGTGACCTTCTCATGCTGATTTGCAGACGGG
GCACCCCTGTGGAGGGGCTGCTGTGGGCCCTGACCTCCAAGCTCCTGCCTCACCGTCTGCCTTGCTCCTCTCTTC
CCAAATCATCACCGCCATGGGGCCAGCCCCAAAGGGCAGTGAATGGCCTTCTCTGAAACCCTGCGTCAAGCAGTG
GGAGAGGGCAGTGCCCGGTGCCCTGGTGTCTCCAGCTGCCCTCCTGCTTCGGGCCTGGGCCGAGGGCCTTGIGTA
GGCCATGTTCTCGGGCAGCTGCCCCGGGCCGGAGCTGGGCACTCCAGCGGCCCTGGCGCGTGGCTCCTGCATAG
CTAGCCCAAGCCAATAAAGGGCTGTGATGAGTGGCTGC

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FIGURE 957

MPYLLISTQIRMEVGPTMVGDEQSDPELMQHLGASKRRALGNNFYEYYVDDPPRIVLDKLERRGFRVLSMTGVGQ
TLVWCLHKE

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FIGURE 958

GGAAAGGAAGGTTTAAAATAATTAATTTAAAATGTCATAAGTATAGACTGATGACTGTATAGAGATGTGAAATG
TATAATTACACATGGAAGCAATATGTTGCTGTGTTGTTATTAGGTTTTTTTGTTTTGTTTTCTACATCTTTTAA
AGACTTTTGGAAATTTGGCTGAACAATTAGAACACAACAGGCCAACTCATACTCATTGATCTATTTAGACAAC
GTTAACCAATATATCTATAGCTTTAGATTATATTGATAAAAAGTAATTGGACTTTTTTTCTTTTTTTGACTCGTT
GACAAGTGTCCTTGTAATATGTTTTTAGTTCCCTTTTTTTGTTGTATTATAGGCAGATGAACAAATTAAATTTGG
CCTCAAAGAGAGAACTTACTCCCTTCTGGATATTTTTGCCACATTTCTTTGCAAAAGGAGATATATATATCTTTA
GTCAGTTTTGTTGTTATGAGAAATTATGGGTTATTTTGTGGCATGCTCTTTGGGAGCTGCACAGTTATGAGGAGG
ACTCCCACTGCTGTGCAAGTTAAGTCTTTTACAAAACAAGGACAGCAGAGGAGGGTTTGCAGAGACCTCCCTCTG
AAAAACACAAAGAATGGACTCTCTCCTGGGATGAGGACTTGCTTTCTTTACCTCCGTTCTTTCCATGTCTTAGT
TGGATGTCCCTGAAATGGACACAGGCTGTGCATTGTGCCAGAAACATTGTGTTATCTTTTATGTTGTTGTTGTTG
CTGTTAAACTATAATATGTTGACTTCTTTTTTTATTATTTTTTGTGTTGAATGCTTTAAAAATCTTTAAGTCTGTGG
ACTGCTGATGTACAGTGCCTTTGCTGCTATGGATCAAATCAAAGACCGTGTAGATATACTTTATTGTATAAGTAG
AAAATTACTTAATTTCACTAGAAATGGATGGATGCTGCAAGTTGAAATGGACTGTCCATTGACGTTCCCTAATG
TGGTAGCAGAAAAAATGGTGTCTTAAGTGCTTAGTGTTGATGTCATTAACAGTTTCGTAAAACTCTACAGTGT
AGAAAGATTTTGATACTAACTGTGCGTTGTACATAGTTCTAATGCATTGTATTGACCACCAGTACTTCTATAAT
GGTAGATTGTTGTGAATTCAGACTTTTAAGCATTAAACATAAATAACTTCT

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FIGURE 959

MGRTP TAVQVKSFTKQGQRRVCRDLPLKNTKNGLSPGMRTCFLYLRFFPCLSWMSLKWTQAVHCARNIVLSFML
LLLLLLNYNM

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FIGURE 960

GAGGCGAACCGGAGCGCGGGGCCGCGGTCGCCCCGACCAGAGCCGGGAGACCGCAGCACCCGCAGCCGCCCGCGA
GCGCGCCGAAGACAGCGCGCAGGCGAGAGCGCGCGGGCGGGGGCGCGCAGGCCCTGCCCGCCCCCTCCGTCCCCA
CCCCCTCCGCCCTTTCTCTCCCCACCTTCCTCTCGCCTCCCGCGCCCCCGCACCCGGGCGCCACCCCTGTCTC
CTCTGCGGGAGCGTTGTCCGTGTTGGCGGCCGCAGCGGGCCGGGCCGGTCCGGCGGGGCCGGGGGATGGCGCTGC
TGGACCTGGCCTTGGAGGGAATGGCCGTCTTCGGGTTCTGCTCTTCTTGGTGCTGTGGCTGATGCATTTTCATGG
CTATCATCTACACCCGATTACACCTCAACAAGAAGGCAACTGACAAACAGCCTTATAGCAAGCTCCCAGGTGTCT
CTCTTCTGAAACCACTGAAAGGGGTAGATCCTAATTAATCAACAACCTGGAAACATTCTTTGAATTGGATTATC
CCAAATATGAAGTGCTCCTTTGTGTACAAGATCATGATGATCCAGCCATTGATGTATGTAAGAAGCTTCTTGGA
AATATCCAAATGTTGATGCTAGATTGTTTATAGGTGGTAAAAAGTTGGCATTAAATCCTAAAATTAATAATTTAA
TGCCAGGATATGAAGTTGCAAAGTATGATCTTATATGGATTTGTGATAGTGGAATAAGAGTAATTCAGATACGC
TTACTGACATGGTGAATCAAATGACAGAAAAAGTAGGCTTGGTTACGGGCTGCCTTACGTAGCAGACAGACAGG
GCTTTGCTGCCACCTTAGAGCAGGTATATTTTGGAACTTCACATCCAAGATACTATATCTCTGCCAATGTAAC TG
GTTTCAAATGTGTGACAGGAATGTCTTGTTTAATGAGAAAAGATGTGTTGGATCAAGCAGGAGGACTTATAGCTT
TTGCTCAGTACATTGCCGAAGATTACTTTATGGCCAAAGCGATAGCTGACCGAGGTTGGAGGTTTGCAATGTCCA
CTCAAGTTGCAATGCAAACTCTGGCTCATATTCAATTTCTCAGTTTCAATCCAGAATGATCAGGTGGACCAAAC
TACGAATTAACATGCTTCCTGCTACAATAATTTGTGAGCCAATTTCAGAATGCTTTGTTGCCAGTTTAATTATTG
GATGGGCAGCCCACCATGTGTTTCTAGATGGGATATTATGGTATTTTTCATGTGTTCATTGCCCTGGCATGGTTTATAT
TTGACTACATTCAACTCAGGGGTGTCCAGGGTGGCACACTGTGTTTTTCAAACCTTGATTATGCAGTCGCCTGGT
TCATCCGCGAATCCATGACAATATACATTTTTTTGTCTGCATTATGGGACCCAACTATAAGCTGGAGAACTGGTC
GCTACAGATTACGCTGTGGGGGTACAGCAGAGGAAATCCTAGATGTATTA~~ACT~~TACAGCTTTGTGACTGTATATAAA
GGAAAAAAGAGAAGTATTATAAATTATGTTTATATAAATGCTTTTAAAAATCTACCTTCTGTAGTTTTATCACAT
GTATGTTTTGGTATCTGTTCTTTAATTTATTTTTGCATGGCACTTGCATCTGTGAAAAAAA

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FIGURE 961

MALLDLALEGMAVFGFVLFVLVWLMHFMAI IYTRLHLNKKATDKQPYSKLPGVSLKPLKGVDPNLINNLETFFE
LDYPKYEVLLCVQDHDDPAIDVCKKLLGKYPNVDARLFIGGKKVGINPKINNLMPGYEVAKYDLIWICDSGIRVI
PDTLTDMVNQMTEKVGLVHGLPYVADRQGF AATLEQVYFGTSHPRYYISANVTGFKCVTGMSCLMRKDVLDQAGG
LIAFAQYIAEDYFMAKAIADRGWRFAMSTQVAMQNSG SYSISQFQSRMIRWTKLRINMLPATIICEPISECFVAS
LIIGWAAHHVFRWDIMVFFMCHCLAWFIFDYIQLRGVQGGTLCFSKLDYAVAWFIRESMTIYIFLSALWDPTISW
RTGRYRLRCGGTAEEILDV

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FIGURE 962A

AAAGAGCTGGAGGCGCGCAGGCCGGCTCCGCTCCGGCCCCGGACGATGCGGCGCGCCCAGG**ATG**CTGCCGTGCCT
CGTAGTGCTGCTGGCGGCGCTCCTCAGCCTCCGTCTTGGCTCAGACGCTCATGGGACAGAGCTGCCCAGCCCTCC
GTCTGTGTGGTTTGAAGCAGAATTTTTCCACCACATCCTCCACTGGACACCCATCCCAAATCAGTCTGAAAGTAC
CTGCTATGAAGTGGCGCTCCTGAGGTATGGAATAGAGTCCTGGAACCTCCATCTCCAACCTGTAGCCAGACCCCTGTC
CTATGACCTTACCGCAGTGACCTTGGACCTGTACCACAGCAATGGCTACCGGGCCAGAGTGCGGGCTGTGGACGG
CAGCCGGCACTCCAACCTGGACCGTCACCAACACCCGCTTCTCTGTGGATGAAGTGAAGTCTGACAGTTGGCAGTGT
GAACCTAGAGATCCACAATGGCTTCATCCTCGGGAAGATTACAGTACCCAGGCCCAAGATGGCCCCCGCGAATGA
CACATATGAAAGCATCTTCAGTCACTTCCGAGAGTATGAGATTGCCATTGCAAGGTGCCGGGAAACTTCACGTT
CACACACAAGAAAGTAAACATGAAAACCTTCAGCCTCCTAACCTCTGGAGAAGTGGGAGAGTTCTGTGTCCAGGT
GAAACCATCTGTCGCTTCCCGAAGTAACAAGGGGATGTGGTCTAAAGAGGAGTGATCTCCCTCACCAGGCAGTA
TTTACCGTGACCAACGTATCATCTTCTTTGCCTTTGTCTGCTGCTCTCCGGAGCCCTCGCCTACTGCCTGGC
CCTCCAGCTGTATGTGCGGCGCCGAAAGAAGCTACCCAGTGTCTGCTCTTCAAGAAGCCAGCCCCCTTCATCTT
CATCAGCCAGCGTCCCTCCCCAGAGACCCAAGACACCATCCACCCGCTTGATGAGGAGGCCTTTTTGAAGGTGTC
CCCAGAGCTGAAGAACTTGGACCTGCACGGCAGCACAGACAGTGGCTTTGGCAGCACCAAGCCATCCCTGCAGAC
TGAAGAGCCCCAGTTCCTCCTCCCTGACCCCTACCCCCAGGCTGACAGAACGCTGGGAAACGGGGAGCCCCCTGT
GCTGGGGGACAGCTGCAGTAGTGGCAGCAGCAATAGCACAGACAGCGGGATCTGCCTGCAGGAGCCAGCCTGAG
CCCCAGCACAGGGCCACCTGGGAGCAACAGGTGGGGAGCAACAGCAGGGGCCAGGATGACAGTGGCATTGACTT
AGTTCAAAACTCTGAGGGCCGGGCTGGGGACACACAGGGTGGCTCGGCCTTGGGCCACACAGTCCCCCGGAGCC
TGAGGTGCCTGGGGAAGAAGACCCAGCTGCTGTGGCATTCCAGGGTTACCTGAGGCAGAÇCAGATGTGCTGAAGA
GAAGGCAACCAAGACAGGCTGCCTGGAGGAAGAATCGCCCTTGACAGATGGCCTTGGCCCCAAATTCGGGAGATG
CCTGGTTGATGAGGCAGGCTTGCATCCACCAGCCCTGGCCAAGGGCTATTTGAAACAGGATCCTCTAGAAATGAC
TCTGGCTTCTCAGGGGGCCCCAACGGGACAGTGGAACCAGCCCACTGAGGAATGGTCACTCCTGGCCTTGAGCAG
CTGCAGTGACCTGGGAATATCTGACTGGAGCTTTGCCCATGACCTTGCCCTCTAGGCTGTGTGGCAGCCCCAGG
TGGTCTCCTGGGCAGCTTTAACTCAGACCTGGTCAACCTGCCCTCATCTCTAGCCTGCAGTCAAGTGAG**TG**ACT
CGGGCTGAGAGGCTGCTTTTGAATTTAGCCATGCCTGCTCCTCTGCCTGGACCAGGAGGAGGGCCCTGGGGCAGA
AGTTAGGCACGAGGCAGTCTGGGCACCTTTTCTGCAAGTCCACTGGGGCTGGGCCAGCCAGGCTGCAGGGCTGGT
AGGGTGTCTGGGGCAGGAGGAGGCCAACTCACTGAAGTAGTGAGGGTATGTGGGTGGCACTGACCTGTTCTGTT
GACTGGGGCCCTGCAGACTCTGGCAGAGCTGAGAAGGGCAGGGACCTTCTCCCTCCTAGGAACCTTTTCTGTAT
CATAAAGGATTATTTGCTCAGGGGAACCATGGGGCTTCTGGAGTTGTGGTGAGGCCACCAGGCTGAAGTCAGCT
CAGACCCAGACCTCCCTGCTTAGGCCACTCGAGCATCAGAGCTTCCAGCAGGAGGAAGGGCTGTAGGAATGGAAG
CTTCAGGGCCTTGCTGCTGGGGTCATTTTTAGGGGAAAAAGGAGGATATGATGGTCACATGGGGAACCTCCCTC
ATCGGGCCTCTGGGGCAGGAAGCTTGTCACTGGAAGATCTTAAGGTATATATTTTCTGGACACTCAAACACATCA
TAATGGATTCACTGAGGGGAGACAAAGGGAGCCGAGACCCCTGGATGGGGCTTCCAGCTCAGAACCCATCCCTCTG
GTGGGTACCTCTGGCACCCATCTGCAAATATCTCCCTCTCTCCAACAAATGGAGTAGCATCCCCCTGGGGCACTT
GCTGAGGCCAAGCCACTCACATCCTCACTTTGCTGCCCCACCATCTTGCTGACAACTTCCAGAGAAGCCATGGTT
TTTTGTATTGGTCATAACTCAGCCCTTTGGGCGGCCTCTGGGCTTGGGCACCAGCTCATGCCAGCCCCAGAGGGT
CAGGGTTGGAGGCTGTGCTTGTGTTTGTGCTAATGTCCAGCTACAGACCCAGAGGATAAGCCACTGGGCACTG
GGCTGGGGTCCCTGCCTTGTGTTGTGTTGCTGCTAATGTCCAGCTACAGACCCAGAGGATAAGCCACTGGGCACTG
CATCTGTGAAATAAGGACTCCACCTTTAGGGGACCCCTCCATGTTTGTGCTGGGTATTAGCCAAGCTGGTCTGGGAG
AATGCAGATACTGTCCGTGGACTACCAAGCTGGCTTGTCTTATGCCAGAGGCTAACAGATCCAATGGGAGTCC
ATGGTGTGATGCCAAGACAGTATCAGACACAGCCCCAGAAGGGGGCATTATGGGCCCTGCCTCCCCATAGGCCAT
TTGGACTCTGCCTTCAAACAAAGGCAGTTCAGTCCACAGGCATGGAAGCTGTGAGGGGACAGGCCTGTGCGTGCC
ATCCAGAGTCATCTCAGCCCTGCCTTTCTCTGGAGCATCTGAAAACAGATATTCTGGCCCAGGGAAATCCAGCCA
TGACCCCCACCCCTCTGCCAAAGTACTCTTAGGTGCCAGTCTGGTAACTGAACTCCCTCTGGAGGCAGGCTTGAG
GGAGGATTCCCTCAGGGTTCCCTTGAAAGCTTTATTTATTTATTTTGTTCATTTATTTATTGGAGAGGCAGCATTG
CACAGTGAAAGAATTCTGGATATCTCAGGAGCCCCGAAATCTAGCTCTGACTTTGCTGTTTCCAGTGGTATGAC
CTTGAGAAAGTCATTATCCTCTTGGAGCCTCAGTTTCCTCATCTGCAGAATAATGACTGACTTGTCTAATTTCAT
AGGGATGTGAGGTTCTGCTGAGGAAATGGGTATGAATGTGCCTTGAACACAAAGCTCTGTCAATAAGTGATACAT

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FIGURE 962B

GTTTTTTATTCCAATAAATTGTCAAGACCACA

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FIGURE 963

MLPCLVLLAALLSLRLGSDAHGTELPSPPSVWFEEAFFHHILHWTPIPNQSESTCYEVALRLRYGIESWNSISNC
SQTLSYDLTAVTLDLYHSNGYRVRVAVDGSRHSNWTVTNTRFSVDEVTLTVGSVNLEIHNGFILGKIQLPRPKM
APANDTYESIFSHFREYEIAIRKVPGNFTFTHKKVKHENFSLTSGEVGEFCVQVKPSVASRSNKGMSKEECIS
LTRQYFTVTNVIIFFAFVLLLSGALAYCLALQLYVRRRKKLPSVLLFKKPSPFIFISQRPSPETQDTIHPLDEEA
FLKVSPDLKNLDLHGSTDGSGFGSTKPSLQTEEPQFLLPDPHPQADRTLGNGEPPVLGDSCSSGSSNSTDSGICLQ
EPSLSPSTGPTWEQQVGSNSRGQDDSGIDLQNSEGRAGDTQGGGALGHHSPPEPEVPGEEDPAAVAFQGYLRQT
RCAEEKATKTGCLLEESPLTDGLGPKFGRCLVDEAGLHPPALAKGYLKQDPLEMTLASSGAPTQQWNQPTTEWSL
LALSSCSDLGISDWSFAHDLAPLGCVAAPGGLLGSEFNSDLVTLPLISSLSSE

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FIGURE 964

CAGTGTGGTGTGCAAGCAGGATCCAAAGGAGACCTATAGTGACTCCCAGGAGCTCTTAGTGACCAAGTGAAG
GTACCTGTGGGGCTCATTGTGCCCATTTGCTCTTTCACTGCTTTCAACTGGTAGTTGTGGGTGAAGCACTGGACA
ATGCCACATACTTTGTGGATGGTGTGGGTCTTGGGGGTCATCATCAGCCTCTCCAAGGAAGAATCCTCCAATCAG
GCTTCTCTGTCTTGTGACCGCAATGGTATCTGCAAGGGCAGCTCAGGATCTTTAACTCCATTCCCTCAGGGCTC
ACAGAAGCTGTAAAAAGCCTTGACCTGTCCAACAACAGGATCACCTACATTAGCAACAGTGACCTACAGAGGTGT
GTGAACCTCCAGGCTCTGGTGTGCTGACATCCAATGGAATTAACACAATAGAGGAAGATTCTTTTTCTTCCCTGGGC
AGTCTTGAACATTTAGACTTATCCTATAATTACTTATCTAATTTATCGTCTTCCTGGTTCAAGCCCCCTTCTTCT
TTAACATTCTTAACTTACTGGGAAATCCTTACAAAACCTTAGGGGAAACATCTCTTTTTCTCATCTCACAAAA
TTGCAAATCCTGAGAGTGGGAAATATGGACACCTTCACTAAGATTCAAAGAAAAGATTTTGCTGGACTTACCTTC
CTTGAGGAACCTGAGATTGATGCTTCAGATCTACAGAGCTATGAGCCAAAAAGTTTGAAGTCAATTCAGAATGTA
AGTCATCTGATCCTTCATATGAAGCAGCATATTTTACTGCTGGAGATTTTGTAGATGTTACAAGTTCCGTGGAA
TGTTTGGAAC TGCGAGATACTGATTTGGACACTTTCCATTTTTCAGAACTATCCACTGGTGAAACAAATTCATTG
ATTAAAAAGTTTACATTTAGAAATGTGAAAATCACCGATGAAAGTTTGTTCAGGTTATGAACTTTTGAATCAG
ATTTCTGGATTGTTAGAATTAGAGTTTGTAGACTGTACCCTTAATGGAGTTGGTAATTTTAGAGCATCTGATAAT
GACAGAGTTATAGATCCAGGTAAAGTGGAACGTTAACAATCCGGAGGCTGCATATTCCAAGGTTTTACTTATTT
TATGATCTGAGCACTTTATATTTCACTTACAGAAAGAGTTAAAAGAATCACAGTAGAAAACAGTAAAGTTTTCTG
GTTCTTGTTTACTTTTACAACATTTAAAATCATTAGAATACTTGGATCTCAGTGAAAATTTGATGGTTGAAGAA
TACTTGAAAAATTCAGCCTGTGAGGATGCCTGGCCCTCTCTACAACTTTAATTTTAAAGGCAAAATCATTGGCA
TCATTGGAAAAAACCGGAGAGACTTTGCTCACTCTGAAAACTTGACTAACATTGATATCAGTAAGAATAGTTTT
CATTCTATGCCTGAACTTGTGAGTGGCCAGAAAAGATGAAATATTTGAACTTATCCAGCACACGAATACACAGT
GTAACAGGCTGCATTCCCAAGACACTGGAAATTTTAGATGTTAGCAACAACAATCTCAATTTATTTCTTTGAAT
TTGCCGCAACTCAAAGAACTTTATATTTCCAGAAATAAGTTGATGACTCTACCAGATGCCTCCCTCTTACCCATG
TTACTAGTATTGAAAATCAGTAGGAATGCAATAACTACGTTTTCTAAGGAGCAACTTGACTCATTTTACACACTG
AAGACTTTGGAAGCTGGTGGCAATAACTTCATTTGCTCCTGTGAATTCCTCTCCTTCACTCAGGAGCAGCAAGCA
CTGGCCAAAGTCTTGATTGATTGGCCAGCAAATTACCTGTGTGACTCTCCATCCCATGTGCGTGGCCAGCAGGTT
CAGGATGTCCGCTCTCGGTGTGGAATGTACAGGACAGCACTGGTGTCTGGCATGTGCTGTGCTCTGTTCTCTG
CTGATCCTGTCTACGGGGTCTGTGCCACCGTTTCCATGGCCTGTGGTATATGAAAATGATGTGGGCCTGGCTC
CAGGCCAAAAGGAAGCCAGGAAAGCTCCAGCAGGAACATCTGCTATGATGCATTTGTTTCTTACAGTGAGCGG
GATGCCTACTGGGTGGAGAACCTTATGGTCCAGGAGCTGGAGAACTTCAATCCCCCTTCAAGTTGTGTCTTCAT
AAGCGGGACTTCATTCTGGCAAGTGGATCATTGACAATATCATTGACTCCATTGAAAAGAGCCACAAAACGTGC
TTTGTGCTTTCTGAAAACCTTGTGAAGAGTGAGTGGTGCAAGTATGAACTGGACTTCTCCATTTCCGTCTTTTT
GATGAGAACAAATGATGCTGCCATTCTCATTCTTCTGGAGCCATTGAGAAAAAGCCATTCCCCAGCGCTTCTGC
AAGCTGCGGAAGATAATGAACACCAAGACCTACCTGGAGTGGCCATGGACGAGGCTCAGCGGAAGGATTTTG
GTAAATCTGAGAGCTGCGATAAAGTCCTAGGTTCCCATATTTAAGACCAGTCTTTGTCTAGTTGGGATCTTTATG
TCACTAGTTATAGTTAAGTTCATTACAGACATAATTATATAAAAACTACGTGGATGTACCGTCATTTGAGGA

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FIGURE 965

MPHTLWMVWVLGVIIISLSKEESSNQASLSCDRNGICKGSSGSLNSIPSGLTEAVKSLDLSNNRITYISNSDLQRC
VNLQALVLTSTNGINTIEEDSFSSLGSLHLDLSYNYLSNLSSSWFKPLSSLTFLNLLGNPYKTLGETSLFSHLTK
LQILRVGNMDTFTKIQRKDFAGLTFLLEELEIDASDLQSYEPKSLKSIQNVSHLILHMKQHILLLEIFVDVTSSVE
CLELRDITDLDTFHFSELSTGETNSLIKKFTFRNVKITDESLEFQVMKLLNQISGLLELEFDDCTLNGVGNFRASDN
DRVIDPGKVETLTIRRLHIPRFYLFYDLSTLYSLTERVKRITVENSKVFLVPCLLSQHLKSLEYLDLSENLMVEE
YLKNSACEDAWPSLQTLILRQNHLSLEKTGETLLTLKNLTNIDISKNSFHSMPETCQWPEKMKYLNLSSTRIHS
VTGCIPKTLEILDVSNNNLNLFSLNLPQLKELYISRNKMLTLPDASLLPMLLVLKISRNAITTFSEQLDSFHTL
KTLEAGGNNFICSEFLSFTQEQQALAKVLIDWPANYLCDSPSHVRGQQVQDVRLSVSECHRTALVSGMCCALFL
LILLTGVLCHRFHGLWYMKMMWAWLQAKRKPRKAPSRNICYDAFVSYSERDAYWVENLMVQELFNFPFKLCLH
KRDFIPGKWIIDNIIDSIEKSHKTVFVLSENFVKSEWCKYELDFSHFRIFDENNDAAAILILLEPIEKKAIPQRF
KLRKIMNTKTYLEWPMDEAQREGFWVNLRAAIKS

[illegible]

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FIGURE 967

MATMVPSVLWPRACWTLLVCCLLTPGVQGQEFLLRVEPQNPVLSAGGSLFVNCSTDCPSSEKIALETSLSKELVA
SGMGWAAFNLNSVTGNSRILCSVYCNGSQITGSSNITVYGLPERVELAPLPPWQPVGQNFTRLRCQVEGGSPRTSL
TVVLLRWEEELSRQPAVEEPAEVTATVLASRDDHGAPFSCRTELDMQPQGLGLFVNTSAPRQLRTFVLPVTPPRL
VAPRFLEVETSWPVDCTLDGLFPASEAQVYLALGDQMLNATVMNHGDTLTATATATARADQEGAREIVCNVTLGG
ERREARENLTVFSFLGPIVNLSEPTAHEGSTVTVSCMAGARVQVTLDGVPAAAPGQPAQLQLNATESDDGRSFFC
SATLEVDDGEFLHRNSSVQLRVLYGPKIDRATCPQHLKWKDKTRHVLQCQARGNPYPCLRCLKEGSSREVPVGIPF
FVNVTNNGTYQCQASSSRGKYTLVVVMDIEAGSSHFPVPFVAVLLTLGVVTIVLALMYVFREHQRSYHVREES
TYLPLTSMQPTEAMGEEPSRAE

[illegible]

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FIGURE 969

MGSPAHRPALLLLLLPPLLLLLLLLLRVPPSRSPGSGDSPLEDDEVGYSHPRYKDTWCSPIKVYGDVYCRAPQGG
YYKTALGTRCDIRCQKGYELHGSSLLICQSNKRWSKVICQKRCPTLAMPANGGFKCVDGAYFNSRCEYYCSPG
YTLKGERTVTCMDNKAWSGRPASCVDMEPPRIKCPVKERIAEPNKLTVRVSWETPEGRDTADGILTDVILKGLP
PGSNFPEGDHKIQYTVYDRAENKGTCKFRVKVRVKRCGKLNAPENGYMKCSSDGDNYGATCEFSIGGYELQGS
ARVCQSNLAWSGTEPTCAAMNVNVGVRTAAALLDQFYEKRRLLIVSTPTARNLLYRLQLGMLQQAQCGLDLRHIT
VVELVGVFPTLIGRIGAKIMPPALALQLRLLLLRIPLYSFMSVLVDKHGMDKERYVSLVMPVALFNLIDTFPLRKE
EMVLQAEMSQTCNT

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FIGURE 970

ATTGAGAGTGGCTCTAACAAGTGCCATTTTTCCTTGTTAGCTTTTCATTTCTCAGCCCTTTACAAGATTAAAATAG
TCTGCAGTTTAAATCTCTCCAAAGCTTTACGGACAGTGATTCTGTCTCTAAACAAGACAGTGACTCCAGGATTTCTG
AAGACTATTGTGGAAGAAGCATCCATTAAAGGCCAAGCTATAACATCAGAAAATGGTGAATGAATACAAGAAAATTC
TTTTGCTGAAAGGATTTGAGCTCATGGATGATTATCATTTTACATCAATTAAGTCCTTACTGGCCCTATGATTTAG
GACTAACTACAAAAATGCAAGAGGAATACAACAGAATTAAGATTACAGATTTTGATGGAAAAAAGTTCCAAGGCG
TTGCCTGTCTAGACAAACTAATAGAACTTGCCAAAGATATGCCATCACTTAAAAACCTTGTTAACAATCTTCGAA
AAGAGAAGTCAAAAGTTGCTAAGAAAAATTAAACACAAGAAAAAGCTCCAGTGAAAAAATAAACCAGGAAGAAG
TGGGTCTTGCGGCACCTGCACCCACCGCAAGAAACAACTGACATCGGAAGCAAGAGGGAGGATTCCTGTAGCTC
AGAAAAGAAAACTCCAACAAAGAAAAGACTGAAGCCAAAGGAATAAGGTGTCCAAGAGCAGAGTAAGCCCC
CAGGTCCCTCAGGAGCCAGCACATCTGCAGCTGTGGATCATCCCCACTACCCAGACCTCATCATCAACTCCAT
CCAACACTTCGTTTACTCCGAATCAGGAAACCCAGGCCAACGGCAGGTGGATGCAAGAAGAAATGTTCCCCAAA
ACGACCCAGTGACAGTGGTGGTACTGAAAGCAACAGCGCCATTTAAATACGAGTCCCAGAAAAATGGGAAAAGCA
CAATGTTTCATGCTACAGTGGCCAGTAAGACTCAATATTTCCATGTGAAAGTCTTCGACATCAACTTGAAAGAGA
AATTTGTAAGGAAGAAGGTCATTACCATATCTGATTACTCTGAATGTAAAGGAGTAATGGAAATAAAGGAAGCAT
CATCTGTGTCTGACTTTAATCAAAAATTTGAGGTCCCAAACAGAATTATCGAAATAGCAAATAAACTCCCAAGA
TCAGTCAACTTTACAAGCAAGCATCTGGAACAATGGTGTATGGGTGTTTATGTTACAAAAGAAAAGCGTACACA
AGAAGAACACAATTTATGAAATACAGGATAATACAGGATCCATGGATGTAGTGGGGAGTGGAATAATGGCACAATA
TCAAGTGTGAGAAAGGAGATAAACTTCGACTCTTCTGCCTTCAACTGAGAACAGTTGACCGCAAGCTGAACTGG
TGTGTGGAAGTCACAGCTTCATCAAGGTCATCAAGGCCAAGAAAAACAAGGAAGGACCAATGAATGTTAATTGAA
ATATGAAAGCTGAAATGCAACAAACAACCTCCGCTTAAACAATTAAGTTGTTAATAACTGTGATTTTGTAAATT
TCAGTAATTCATTTAAATGATGTTTCAGTAGATATATTCTAGCATATTAAGAGCTTTTATAACTGAGTTATAGAT
TAGTTTGCTTTCTGGAATAAAAATTTTCTTCTTATACTCTTCCTTTTTTTTAGATATTACATTTTGCTTTTATGAC
ATTCACGAGGCAAAAAACCG

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FIGURE 971

MVNEYKKILLLLKGFELMDDYHFTSIKSLLAYDLGLTTKMQEEYNRIKITDLMEKKFQGVACLDKLIELAKDMPSL
KNLVNNLRKEKSKVAKKIKTQEKAPVKKINQEEVGLAAPAPTARNKLTSEARGRIPVAQKRKTPNKEKTEAKRNL
VSQEQSKPPGPSGASTSAAVDHPPLPQTSSSTPSNTSFTPNQETQAQRQVDARRNVPQNDPVTVVVLKATAPFKY
ESPENGKSTMFHATVASKTQYFHVKVFDINLKEKFVRKKVITISDYSECKGVMEIKEASSVSDFNQNFEPNRII
EIANKTPKISQLYKQASGTMVYGLFMLQKKSVHKKNTIYEIQDNTGSMDVVGSGKWHNIKCEKGDKLRLFLCLQLR
TVDRKLLVCGSHSFIKVIKAKKNKEGPMNVN

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FIGURE 972

GGCCACCCAGTCA**ATG**GGGGACACCTTCATCCGTCACATCGCCCTGCTGGGCTTTGAGAAGCGCTTCGTACCCAGC
CAGCACTATGTGTACATGTTCCCTGGTGAAATGGCAGGACCTGTCGGAGAAGGTGGTCTACCGGCGCTTCACCGAG
ATCTACGAGTTCCATAAAACCTTAAAAGAAATGTTCCCTATTGAGGCAGGGGCGATCAATCCAGAGAACAGGATC
ATCCCCCACCTCCCAGCTCCCAAGTGGTTTGACGGGCAGCGGGCCGCCGAGAACCGCCAGGGGCACACTTACCGAG
TACTGCAGCACGCTCATGAGCCTGCCCACCAAGATCTCCCGCTGTCCCCACCTCCTCGACTTCTTCAAGGTGCGC
CCTGATGACCTCAAGCTCCCCACAGACAACCAGACAAAAAAGCCAGAGACATACTTGATGCCCAAAGATGGCAAG
AGTACCGCGACAGACATCACCGGCCCCATCATCCTGCAGACGTACCGCGCCATTGCCGACTACGAGAAGACCTCG
GGCTCCGAGATGGCTCTGTCCACGGGGGACGTGGTGGAGGTCGTGGAGAAGAGCGAGAGCGGTTGGTGTTCTGT
CAGATGAAAGCAAAGCGAGGCTGGATCCCAGCATCCTTCCTCGAGCCCCTGGACAGTCCTGACGAGACGGAAGAC
CCTGAGCCCAACTATGCAGGTGAGCCATACGTCGCCATCAAGGCCTACACTGCTGTGGAGGGGGACGAGGTGTCC
CTGCTCGAGGGTGAAGCTGTTGAGGTCATTACAAGCTCCTGGACGGCTGGTGGGTCTATCAGGAAAGACGACGTC
ACAGGCTACTTTCCGTCCATGTACCTGCAAAAGTCGGGGCAAGACGTGTCCAGGCCCAACGCCAGATCAAGCGG
GGGGCGCCGCCCGCAGGTCGTCCATCCGCAACGCGCACAGCATCCATCAGCGGTGCGGGAAGCGCCTCAGCCAG
GACGCCTATCGCCGCAACAGCGTCCGTTTTCTGCAGCAGCGACGCCGCCAGGCGCGGCCGGGACCGCAGAGCCCC
GGGAGCCCGCTCGAGGAGGAGCGGCAGACGCAGCGCTCTAAACCGCAGCCGGCGGTGCCCCCGCGGCCGAGCGCC
GACCTCATCCTGAACCGCTGCAGCGAGAGCACCAAGCGGAAGCTGGCGTCTGCCGTCT**TG**AGGCTGGAGCGCAGTC
CCCAGCTAGCGTCTCGGCCCTTGCCGCCCCGTGCCTGTACATACGTGTTCTATAGAGCCTGGCGTCTGGACGCCG
AGGGCAGCCCCGACCCCTGTCCAGCGCGGCTCCCGCCACCCTCAATAAATGTTGCTTGGAGTGG

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FIGURE 973

MGDTFIRHIALLGFEKRFVPSQHYVYMFLVKWQDLSEKVVYRRFTEIYEFHKTLEKMFPIEAGAINPENRIIPHL
PAPKWFDGQRAAENRQGTLECYCSTLMSLPTKISRCPHLLDFFKVRPDDLKLPTDNQTKKPETYLMPKDGKSTAT
DITGPIILQTYRAIADYEKTSGSEMALSTGDVVEVVEKSESGWWFCQMKAKRGWIPASFLEPLDSPDETEDPEPN
YAGEPYVAIKAYTAVEGDEVSLLEGEAVEVIHKLLDGWWVIRKDDVTGYFPSMYLQKSGQDVSQAQRQIKRGAPP
RRSSIRNAHSIHQSRKRLSQDAYRRNSVRFLQQRRRQARPGPQSPGSPLEERQTQRSKPQPAVPPRP SADLIL
NRCSESTKRKLASAV

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FIGURE 974A

AATTCGGCACGAGACAAAAAGAGAAAGAAA**ATG**CCGAAACCAATCAACGTAAGAGTAACTACAATGGATGCTGAG
CTGGAATTTGCCATTTCAGCCCAATACAACTGGCAAACAACCTTTTTGACCAGGTGGTGAAAACAGTTGGTTTGCGT
GAGGTCTGGTTTTTTTGGGCTGCAGTATGTAGACAGCAAAGGTTATTCTACATGGCTTAAACTAAATAAAAAAGGTA
ACACAGCAGGATGTTAAAAAGAGAATCCTTTACAGTTCAAGTTTAGAGCTAAATTCCTTTCTGAGATGTTTCT
GAGGAATTAATTCAAGAAATAACCCAGAGACTCTTCTTCTTGCAAGTTAAAGAAGCCATCTTAAATGATGAGATA
TATTGCCCCGCCAGAACTGCAGTTCTTTTGGCTTCCTATGCTGTCCAAGCCAAGTATGGAGATTACAATAAAGAG
ATTCATAAGCCAGGCTACCTGGCTAATGATAGACTCCTACCCAGCGTGTATTGGAACAACACAACTAACAAAA
GAACAGTGGGAAGAAAGAATACAGAACTGGCATGAAGAACATAGAGGAATGTTAAGGGAGGATTCTATGATGGAA
TACCTGAAGATTGCACAAGATCTAGAAATGTATGGAGTCAACTATTTTGAAATAAAAAATAAAAAAGGAAGTAA
TTGTGGCTAGGTGTTGATGCTTTGGGTCTGAATATTTATGAGCATGACGACAAGTTAACACCTAAAATTGGTTTT
CCCTGGAGTGAAATCAGAAATATTTCAATTAATGACAAAAAATTTGTTATAAAGCCAATCGACAAAAAGGCACCT
GATTTTGTGTTTTATGCACCTCGTCTGAGAATCAATAAGCGGATTTTGGCCTTATGTATGGGAAACCATGAACCTA
TACATGCGAAGAAGGAAGCCTGATACTATTGAAGTACAACAGATGAAGGCTCAGGCTAGGGAGGAGAAACATCAG
AAGCAGTTGGAAAGGGCACAATTAGAGAATGAAAAGAAGAAAAGAGAAATAGCAGAAAAGGAAAAGGAAAAGAATA
GAACGTGAAAAGGAAGAGCTAATGGAACGTCTAAAACAAATTGAAGAGCAGACAATTAAAGCTCAGAAAAGAACTA
GAAGAACAGACTCGAAAAGCTCTAGAAGCTGGATCAAGAACGAAAACGAGCAAAAAGAAGAAGCAGAACGACTTGAA
AAGGAGCGTCGAGCTGCTGAAGAGGCAAAGTCTGCCATAGCAAACAAGCTGCCGACCAGATGAAGAATCAGGAG
CAGCTAGCAGCAGAACTTGCTGAATTCAGTCCCAAGATTGCACCTCTAGAGGAAGCCAAGAAGAAAAAGGAAGAG
GAAGCAACTGAGTGGCAACACAAAGCTTTTGAGCCCGAGGAAGACTTGAAAAGACCAAAGAAGAGTTAAAAACT
GTGATGTCTGCCCCCCTCCACCTCCACCACCACAGTCATTCTCCAACAGAAAACGAACATGATGAACACGAT
GAGAATAATGCTGAAGCTAGTGTGAATTATCAAAATGAAGGGGTAATGAACCATAGAAGCGAGGAAGAAGCTGTA
ACCGAAAACACAGAAAAATGAGCGTGTTAAGAAGCAACTTCAGGCATTAAGTTTCAAGATTAGCCCCAAGCCAGAGAT
GAAAACCAAGAAAACACAAAATGATGTTCTTCATGCTGAGAATGTTAAAGCAGGCCGTGATAAGTACAAGACTCTG
CGACAGATTCGACAAGGCAATACAAAGCAGCGTATCGATGAGTTTGAAGCAATG**TCAG**AGCTGTTATTTTGCATA
TATGTTCTTCATAAGCTGAACCACCAACAGAGAAAAAGCAGGCCTTTGCAGATATGATGGAATGCATCCACCTTG
CCAAAGCACTTACACCAGTTTGACTGTGCTAGCTAAAAGACAAATTTAAGGGGAGCTCTTCAACATTAAGGCAGT
ATGATATCATGCTTGTTTTCTTTTTCTTTTGGTCCAGGGAATGGAGAATGGTGTTCCATTGCCTCTTTTCACA
TTTTTTTTCTTTTTCTTTTTTTTTCTGTTGAAGATTAACACTAATTATCACGTCTGACAAATGTGTATGTGTGG
TTTCAGTTCTGTGTACATTTTAAAGGATAATGGTGAACATTTTAATGGGTTTCCCTTGCCCTTCCATATTTAAC
CTATTTCCACATTCTCTCTCACTCACATTTTCTCAGTGTGCCCTTCTCTTATCTGCCATGTCCATAGCCATAATT
CCACCATCATACAGATCAGGCAGTGTTTAAAATGATGGTAGGTAGCACAGTGGACAGTCTTTGATCATCATGTAG
AATATGGCTATGAATCAGGAAAGAGATTAGAACATTTAATAATGTATGTACAGCTGGTGCTTAGTTTTTTTTTAA
TCTAAATTTAATTACCTTATTGGATATTTGATATTTGGTTATTTAATCACAGTCATCTTTAACAGCTTACACTGA
TTGGTGTTTTATCTCCTGTGATCCTTTGATGGCTTTTTTTGCCCTACCATTTACAGAGGTTTAGACAGCAGTAGT
AGCTCCCTAGGAGAGTTTACTGATGAAACAGCCTCTGCAAGATTTTAAAGTTTTGTTCTTTTATAGACTGATTT
AGAAAAACAAATGATTAGTTAAAAAAGAAAATATACATTTGTTGGTAACTAATGTTATTTTTTAAACCTGGAC
CTTTCTGGAAGGGCAGCATATAAAAACATCAGTCCCGAGGAGGGGACAACAATACTACCTCACTACTACATCTGT
GATGACTGGTTGTTCAAACACAATGGAGTGTGTAAGGTATATGTTTTATAATTCATAACCATAGCCTCGATCATC
AAGAAATACCTTCGAAATTTCAATTTTCTTCAGAAATATCTTAAGAGTGCTAAATTTTAACTGCCTTTTTGTGCA
GTCAAACCTGTGGGATTCTGATTTGTATTAAAATTGTAAGCTCCTCACTGGTATACTATCATCCTGGAGGGGTGTT
GTATGGCTGAGCAAGAGAGAGAGAGAATGAGAGAGAGACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT
GTATGAGAGAGAGAGAGAGAAATGCTAACCTTGTAGCATGTGAAGAAATGTCTGTACCTTGATACGATAGTTACATAA
TCAGTATATTTGGTTTTCTAGATCACTGTGCTTATTTTTGTTTTCAATCTCTGACTAAAAATACTTAAATTTGGTTTTG
TTAATTCCTTATTTTAGAAATTATAATTTTAGTTTTATATTAATTTTCGGTTATAGCTTACTGAAGAAATCTTTCCAG
TTAGAAGGAGGTTCTAATATTCACATGTTCTAATACTTTGTTTATTGTAAACAGCTAAATTTGGAGATACGTAA
AGCCTTGTTTTCTCTGTGTGGTTCAGCTACTTTCCATTTGGTATTACACAGTCAAATTTACATTTATCTATTAA
ATTGCCATTTTATTAAACATTTTCATGCACAGTAGATTCAAGTTGTGTCTGAAAATATCTCTTGTGCTTTTTTTGA
TTTTGCTGACTTTAAAGGATTAATCTGGGCAGACATTATGTAAGAAAGGTTGCGTTTAAATATATTTTTTTGAA

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FIGURE 974B

CTTTGTAGGACAAAACATAGCTGGTTAACCTTGAAGTGACTGTTGTACCATGGTTGTGCACATGCTTCAGAATCC
TATGGAAGAGAATATTCCTACTTGCAGTACATCAAAGGAATGGATGGTGGACCCTACTATTCATGTTTTGAGACA
TAAATGTTCACTTTAAAGCAATTGCATAATAGATAAAAACCTGAACTTTCATTGGATTTTTGTAAATTTTCCTCA
TTTTGAATTATGTGCACTACCATAGCTACATCAGTTTGATACAGTATTGAAAAATTATCAGTTATATTTTGCTGT
TTATGATCTATTTGTAGATTAGGATTAAATGGATTTAATCCATTTTTAAGGCTGTGTGAATTTTTCTAAACAAG
AACCATTTGCAATATGGATTTCTTAGAGATTAAACCAATTATAACTTATTAGCAGTCGCGAGCACATGTTTCATAT
AGTCAATGTAAAAATACACTAATGAGTATTTGGTAAATCCCAGTAGGCTTTTACCATTAGCATAATTTTGTGTTG
TACAATTAAGTTACAATTACATCTCTAATTTTGGATAATATTCATTGGTTAACAATAAAGTGACAAAAGCTCATG
CAAAAAAAAAAAAAAAAAAAAA

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FIGURE 975

MPKPINVRVTTMDAELEFAIQPNTTGKQLFDQVVKTVGLREVWFFGLQYVDSKGYSTWLKLNKKVTQQDVKKENP
LQFKFRAKFFPEDVSEELIQEITQRLFFLQVKEAILNDEIYCPEAVLLASYAVQAKYGDYNKEIHKPGYLAND
RLLPQRVLEQHKLTKEQWEERIQNWHEEHRGMLREDSMMEYLKIAQDLEMYGVNYFEIKNKKGTTELWLGVDALGL
NIYEHDDKLTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVIFYAPRLRINKRILALCMGNHELYMRRRKPDIT
EVQOMKAQAREEKHQKQLERAQLENEKKKREIAEKEKERIEREKEELMERLKQIEEQTIKAQKELEEQTRKALEL
DQERKRAKEEAERLEKERRAAEEAKSAIAKQAADQMKNQEQLAAELAEFTAKIALLEEAKKKKEEEATEWQHKA
AAQEDLEKTKEELKTVMSAPPPPPPPVIPPTENEHDEHDENNAEASAELSNEGVMNHRSEEERTETQKNERNV
KQLQALSSELAQARDETKKTQNDVLHAENVKAGRDKYKTLRQIRQGNTKQRIDEFEAM

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FIGURE 976

ACTTCCCTGTTCACTTTGGTTCCAGCATCCTGTCCAGCAAAGAAGCAATCAGCCAAAATGATACCTGGAGGCTTA
TCTGAGGCCAAACCCGCCACTCCAGAAATCCAGGAGATTGTTGATAAGGTTAAACCACAGCTTGAAGAAAAACA
AATGAGACTTATGGAAAATTGGAAGCTGTGCAGTATAAACTCAAGTTGTTGCTGGAACAAATTACTACATTAAG
GTACGAGCAGGTGATAATAAATATATGCACTTGAAAGTATTCAAAAGTCTTCCCGGACAAAATGAGGACTTGGTA
CTTACTGGATACCAGGTTGACAAAAACAAGGATGACGAGCTGACGGGCTTTTTAGCAGCATGTACCCAAAGTGTT
TGATTCCTTCAACTGGCTACTGAGTCATGATCCTTGCTGATAAATATAACCATCAATAAAGAAGCATTCTTTCC
A

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FIGURE 977

MIPGGLSEAKPATPEIQEIVDKVKPQLEEKTNETYGKLEAVQYKTQVVAGTNYYIKVRAGDNKYMHLKVFKSLPG
QNEDLVLTGYQVDKNKDDELTGF

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FIGURE 978A

GCCTGGCACC GGGGACCGTTGCCTGACGCGAGGCCCAGCTCTACTTTTCGCCCCGCGTCTCCTCCGCCTGCTCGC
CTCTTCCACCAACTCCAACTCCTTCTCCCTCCAGCTCCACTCGCTAGTCCCCGACTCCGCCAGCCCTCGGCCCGC
TGCCGTAGCGCCGCTTCCCGTCCGGTCCCAAAGGTGGGAACGCGTCCGCCCCGGCCCGCACCATGGCACGGTTTCG
GCTTGCCCGCGCTTCTCTGCACCCTGGCAGTGCTCAGCGCCGCGCTGCTGGCTGCCGAGCTCAAGTCGAAAAGTT
GCTCGGAAGTGCGACGTCTTTACGTGTCCAAAGGCTTCAACAAGAACGATGCCCCCTCCACGAGATCAACGGTG
ATCATTGAAGATCTGTCCCCAGGGTTCTACCTGCTGCTCTCAAGAGATGGAGGAGAAGTACAGCCTGCAAAGTA
AAGATGATTTCAAAGTGTGGTCAGCGAACAGTGCAATCATTTGCAAGCTGTCTTTGCTTCACGTTACAAGAAGT
TTGATGAATTCCTCAAAGAATACTTGAAAATGCAGAGAAATCCCTGAATGATATGTTTGTGAAGACATATGGCC
ATTTATACATGCAAATTCCTGAGCTATTTAAAGATCTCTTCGTAGAGTTGAAACGTTACTACGTGGTGGGAAATG
TGAACCTGGAAGAAATGCTAAATGACTTCTGGGCTCGCCTCCTGGAGCGGATGTTCCGCTGGTGAACCTCCAGT
ACCACTTTACAGATGAGTATCTGGAATGTGTGAGCAAGTATACGGAGCAGCTGAAGCCCTTCGGAGATGTCCCTC
GCAAATTGAAGCTCCAGGTTACTCGTGCTTTTGTAGCAGCCCGTACTTTGCTCAAGGCTTAGCGGTTGCGGGAG
ATGTCGTGAGCAAGGTCTCCGTGGTAAACCCACAGCCAGTGTACCCATGCCCTGTTGAAGATGATCTACTGCT
CCCCTGCCCCGGGTCTCGTGACTGTGAAGCCATGTTACAATACTGCTCAAACATCATGAGAGGCTGTTTGGCCA
ACCAAGGGGATCTCGATTTTGAATGGAACAATTTCATAGATGCTATGCTGATGGTGGCAGAGAGGCTAGAGGGTC
CTTTCAACATTGAATCGGTCTATGGATCCCATCGATGTGAAGATTTCTGATGCTATTATGAACATGCAGGATAATA
GTGTTCAAGTGTCTCAGAAGGTTTTCCAGGGATGTGGACCCCCCAAGCCCTCCAGCTGGACGAATTTCTCGTT
CCATCTCTGAAAGTGCCTTCAGTGCTCGCTTCAGACCACATCACCCGAGGAACGCCCAACCACAGCAGCTGGCA
CTAGTTTGGACCGACTGGTTACTGATGTCAAGGAGAACTGAAACAGGCCAAGAAATTCTGGTCCCTCCCTTCCGA
GCAACGTTTGCAACGATGAGAGGATGGCTGCAGGAAACGGCAATGAGGATGACTGTTGGAATGGGAAAAGGCAAAA
GCAGGTACCTGTTTGAGTGACAGGAAATGGATTAGCCAACCAGGGCAACAACCCAGAGGTCCAGGTTGACACCA
GCAAACCAGACATACTGATCCTTCGTCAAATCATGGCTCTTCGAGTGATGACCAGCAAGATGAAGAATGCATACA
ATGGGAACGACGTGGACTTCTTTGATATCAGTGATGAAAGTAGTGGAGAAGGAAGTGAAGTGGCTGTGAGTATC
AGCAGTGCCCTTCAGAGTTTGACTACAATGCCACTGACCATGCTGGGAAGAGTGCCAATGAGAAAAGCCGACAGTG
CTGGTGTCCGTCTCGGGCACAGGCCTACCTCCTCACTGTCTTCTGCATCTTGTTTCTGGTTATGCAGAGAGAGT
GGAGATTAATTCTCAAACCTCTGAGAAAAAGTGTTTCATCAAAAAGTTAAAAGGCACCAGTTATCACTTTTCTACCAT
CCTAGTGACTTTTGCTTTTTTAAATGAATGGACAACAATGTACAGTTTTTACTATGTGGCCACTGGTTTAAGAAGTG
CTGACTTTGTTTTCTCATTTCAGTTTTGGGAGGAAAAGGGACTGTGCATTGAGTTGGTTCTGCTCCCCCAAACCA
TGTTAAACGTGGCTAACAGTGTAGGTACAGAACTATAGTTAGTTGTGCATTTGTGATTTTATCACTCTATTATTT
GTTTGTATGTTTTTTCTCATTTCGTTTGTGGGTTTTTTTTTCCAACGTGATCTCGCCTTGTTTCTTACAAGCA
AACCAGGGTCCCTTCTTGGCACGTAACATGTACGTATTTCTGAAATATTAAATAGCTGTACAGAAGCAGGTTTTA
TTTATCATGTTATCTTATTTAAAGAAAAAGCCCCAAAAGCAGTAAAATTTCCATTTCTCCCTGTTATTTTAGTTG
CCTTATCTGGAGAGACGTGGAGGTGATTTCTTTTTTTAAATTATTATTAAGACAGAATGTGAGGGCACAAGCA
GGCTTCTGAGCCACTTGTGAGATTGTATTCAAAGCATCAATCCAAGAAGGAGGTTATGTGTACTTCATTTATTGG
TGATAGTTGGAAGAGACTGCAGACTACTGCTTTGAATGAGTTGAATTACATAAGCTAAGATCACTATAGGTCCAT
TTCTTGAACCCACTTATACATAAAATGTAAACCATTTAGAAAAAGATTCTGGATATCATCCCCCTTGAAAGATAG
AAAGCATTCAGGATGTCCCAGTTATCACATGTTACACTTGGGTTTAGGGGTGTTTTTTTTTAAACCAGGCAGG
TTAGCTAGCCCACCTGTGCTAGTTTTTCATGTTACACTGACCCTATTTGAATTAATATCCTTTGTTAGAGTGGT
CGAGATTTCAAACCAATTATGTACAGGGAGCTGTCTGAGAGCTAGCCAGAAGTGGGGTACAGCCTGGGCTCAGG
GAATAGCTGTCAACACTCGGGCAAAGTTTTTGTCTGTGCATGTGTATCTCCATTTGTTTTGGGATCCCAGTTTTT
GTTTTAAGAGAGTATAAGGTGTCTCATTGTAGTCTTTTTCTTACCTAGCCCCCTCTTATCAGTAAAAACAAAGGAC
TTGCCATGGTTTACAGCAATGTGCTACGATCCAAGATATCAGCCAAGGAGCCCACTTAGGGGAGAACTAGGTGTC
CAGATTTTTGTATGTGTTGTTTTCTTGGGGGATGGGGTGGGGTGGGAGTAGGTAGAGCTGAGAATACTACATCT
TAGTGGTGACCTTTAGCCACGTGGGTGAAGTGGCAAAGGCCATGGCCATATCTGTTGTCCCAGGCCAAAGACTAA
CAACTGCCCTTGGGAATCCCTTCCTTGTGTCTTACCAATGATAGCTCATAAACTCTGATAATGTAACAAATCA
CTTTCAAAGGAGTTCCAGAAAGTCTTCAGAAAGACTAAAATCTGTCTCTTCTGCTTTAGACAGCCATTAAGAT
CCCAACTAATTTTACCGAACCTAAAACCCACAAAGAGGTGTTTGTGTTATTGTTCAATCTTCAGTTGTAAGAGT
AATTCTCTATTTTTATATTGAACATAATTACTTGATAGCTCAGGGTCTACATTTCACTCAACTTTTTACACCAA

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FIGURE 978B

ATTCTGCAGAGTGGTCAAAATGGAATATTGGGGGCTGTTGTAAACAGAGGCTTAATTTTATTAGAAGTAGCCAGT
TATTTATTAAAGCATGATGTTAATAAAATAGGCATATTC

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FIGURE 979

MARFGLPALLCTLAVLSAALLAAELKSKSCSEVRRLYVSKGFNKNDAPLHEINGDHLKICPQGSTCCSQEMEKEY
SLQSKDDFKSVVSEQCNHLQAVFASRYKKFDEFFKELLENAEKSLNDMFVKTYGHLYMQNSELFKDLFVELKRY
VVGNVNLEEMLNDFWARLLERMFRVNSQYHFTDEYLECVSKYTEQLKPFGDVPRKLKLQVTRAFVAARTFAQGL
AVAGDVVSKVSVVNPTAQCTHALLKMIYCSHCRGLVTVKPCYNYCSNIMRGCLANQGDLD FEWNNFIDAMLV
AE RLEGPFNIESVMDPIDVKISDAIMNMQDNSVQVSQKVFQGC GPPKPLPAGRISRSISESAFSARFRPHHPEERT
TAAGTSLDRLVTDVKEKLKQAKKFWSSLP SNVCNDERMAAGNGNEDDCWNGKGKSRYLFAVTGNGLANQGNNPEV
QVDTSKPDILILRQIMALRVMTSKMKNAYNGNDVDFFDISDESSGEGSGSGCEYQQCPSEFDYNATDHAGKSANE
KADSAGVRPGAQAYLLTVFCILFLVMQREWR

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FIGURE 980

AAGAGATGATTTCTCCATCCTGAACGTGCAGCGAGCTTGTCAGGAAGATCGGAGGTGCCAAGTAGCAGAGAAAGC
ATCCCCCAGCTCTGACAGGGAGACAGCAC**ATGT**CTAAGGCCCACAAAGCCTTGGCCCTACCGGAGGAGAAGTCAAT
TTTCTTCTCGAAAATACCTGAAAAAAGAAATGAATTCCTTCCAGCAACAGCCACCGCCATTTCGGCACAGTGCCAC
CACAAATGATGTTTCTCCAAACTGGCAGGGGGCAGAGAAGGACGCTGCTTTCTCGCCAAGGACTTCAACTTTC
TCACTTTGAACAATCAGCCACCACCAGGAAACAGGAGCCAACCAAGGGCAATGGGGCCCGAGAACAACCTGTACA
GCCAGTACGAGCAGAAGGTGCGCCCCCTGCATTGACCTCATCGACTCCCTGCGGGCTCTGGGTGTGGAGCAGGACC
TGGCCCTGCCAGCCATCGCCGTCATCGGGGACCAGAGCTCGGGCAAGAGCTCTGTGCTGGAGGCACTGTCTAGGAG
TCGCGCTTCCCAGAGGCAGCGGAATCGTAACCAGGTGTCCGCTGGTGCTGAAACTGAAAAAGCAGCCCTGTGAGG
CATGGGGCCGGAAGGATCAGCTACCGGAACACCGAGCTAGAGCTTCAGGACCCTGGCCAGGTGGAGAAAAGAGATAC
ACAAAGCCCAGAACGTTCATGGCCGGGAATGGCCGGGGCATCAGCCATGAGCTCATCAGCCTGGAGATCACCTCCC
CTGAGGTTCCAGACCTGACCATCATTGACCTTCCCGGCATCACCAGGTGGCTGTGGACAACCAGCCCCGAGACA
TCGGACTGCAGATCAAGGCTCTCATCAAGAAGTACATCCAGAGGCAGCAGACGATCAACTTGGTGGTGGTTCCCT
GTAACGTGGACATTGCCACCACGGAGGCGCTGAGCATGGCCCATGAGGTGGACCCGGAAGGGGACAGGACCATCG
GTATCTTGACCAAACCAGATCTAATGGACAGGGGCACTGAGAAAAGCGTCATGAATGTGGTGCAGAACCTCACGT
ACCCCTCAAGAAGGGCTACATGATTGTGAAGTGCCGGGGCCAGCAGGAGATCACAAACAGGCTGAGCTTGGCAG
AGGCAACCAAGAAAGAAATTACATTCTTTCAAACACATCCATATTTAGAGTTCTCCTGGAGGAGGGGTCAGCCA
CGGTTCCCCGACTGGCAGAAAGACTTACCACTGAACTCATCATGCATATCCAAAAATCGCTCCCGTTGTTAGAAG
GACAAATAAGGGAGAGCCACCAGAAGGCGACCGAGGAGCTGCGGCGTTGCGGGGCTGACATCCCCAGCCAGGAGG
CCGACAAGATGTTCTTTCTAATTGAGAAAATCAAGATGTTTAATCAGGACATCGAAAAGTTAGTAGAAGGAGAAG
AAGTTGTAAGGGAGAATGAGACCCGTTTATACAACAAAATCAGAGAGGATTTTAAAAACTGGGTAGGCATACTTG
CAACTAATACCCAAAAAGTTAAAAATATTATCCACGAAGAAGTTGAAAAATATGAAAAGCAGTATCGAGGCAAGG
AGCTTCTGGGATTTGTCAACTACAAGACATTTGAGATCATCGTGCATCAGTACATCCAGCAGCTGGTGGAGCCCG
CCCTTAGCATGCTCCAGAAAGCCATGGAATTTATCCAGCAAGCTTTTATTAACGTGGCCAAAAAACATTTTGGCG
AATTTTTCAACCTTAACCAAAGTTTTCAGAGCACGATTGAAGACATAAAAGTGAAACACACAGCAAAAGGCAGAAA
ACATGATCCAACCTCAGTTTCAAGATGGAGCAGATGGTTTTTTTGTCAAGATCAGATTTACAGTGTTGTTCTGAAGA
AAGTCCGAGAAGAGATTTTTTAACCCTCTGGGGACGCCTTCACAGAATATGAAGTTGAACTCTCATTTTCCCAGTA
ATGAGTCTTCGGTTTTCTCCTTTACTGAAATAGGCATCCACCTGAATGCCTACTTCTTGGAACCCAGCAAACGTC
TCGCCAACCCAGATCCCATTTTATAATTAGTATTTTATGCTCCGAGAGAATGGTGAATCCTTGAGAAAAGCCATGA
TGCAGATACTACAGGAAAAAATCGCTATTCTTGCTGCTTCAAGAGCAGAGTGAGACCGCTACCAAGAGAAGAA
TCCTTAAGGAGAGAATTTACCGGCTCACTCAGGCGCGACACGCACTCTGTCAATTCTCCAGCAAAGAGATCCACT
GAAGGGCGGCGATGCCTGTGGTTGTTTTCTTGTCGTACTCATTCAATTCTAAGGGGAGTCGGTGCAGGATGCCGC
TTCTGCTTTGGGGCCAACTCTTCTGTCACTATCAGTGTCCATCTCTACTGTACTCCCTCAGCATCAGAGCATGC
ATCAGGGGTCCACACAGGCTCAGCTCTCTCCACCACCCAGCTCTTCCCTGACCTTACGAAGGGATGGCTCTCCA
GTCCTTGGGTCCCGTAGCACACAGTTACAGTGTCTAAGATACTGCTATCATTCTTCGCTAATTTGTATTTGTAT
TCCCTTCCCCCTACAAGATTATGAGACCCAGAGGGGGAAGGTCTGGGTCAAATTCTTCTTTGTATGTCCAGTC
TCCTGCACAGCACCTGCAGCATTGTAAGTGTCTTAATAAATGACATCTCACTGAACGAATGAGTGTGTGTAAGTG
ATGGAGATACCTGAGGCTATTGCTCAAGCCCAGGCCTTGGACATTTAGTGACTGTTAGCCGGTCCCTTTCAGATC
CAGTGGCCATGCCCCCTGCTTCCCATGGTTCACTGTCAATTGTGTTTTCCAGCCTCTCCACTCCCCGCCAGAAAG
GAGCCTGAGTGATTCTCTTTCTTCTTGTTCCTGATTATGATGAGCTTCCATTGTTCTGTTAAGTCTTGAAGA
GGAATTTAATAAAGCAAAGAACTTTTTAAAAACGT

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FIGURE 981

MSKAHKPWPYRRRSQFSSRKYLKKEMNSFQQQPPPFQGTVPQMMFPPNWQGAEKDAAFLAKDFNFLTNNQPPPG
NRSQPRAMGPENNLYSQYEQKVRPCIDLIDSLRALGVEQDLALPAIAVIGDQSSGKSSVLEALSGVALPRGSGIV
TRCPLVLKLLKQPCEAWAGRISYRNTELELQDPGQVEKEIHKAQNMAGNGRGISHELISLEITSPEVPDLTIID
LPGITRVAVDNQPRDIGLQIKALIKKYIQRQQTINLVVPCNVDIATTEALSMAHEVDPEGDRITIGILTKPDLMD
RGTEKSVMNVVRNLTYPKKGYMIVKCRGQQEITNRLSLAEATKKEITFFQTHPYFRVLLEEGSATVPRLAERLT
TELIMHIQKSLPLLEGQIRESHQKATEELRRCGADIPSQEADKMFFLIEKIKMFNQDIEKLVEGEEVVRENETRL
YNKIREDFKNWVGILATNTQVKNIIEEVEKEYEKQYRGKELLGFVNYKTFEIIIVHQYIQQQLVEPALSMLOKAME
IIQQAFINVAKKHFGFEFFNLNQTVQSTIEDIKVKHTAKAENMIQLQFRMEQMVFCQDQIYSVVLKKVREEIFNPL
GTPSQNMKLNSHFPSNESSVSSFTEIGIHLNAYFLETSKRLANQIPFIIQYFMLRENGDSLQKAMMQILQEKTRY
SWLLQEQSETATKRRILKERIYRLTQARHALCQFSSKEIH

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FIGURE 982A

GGGAGAAGCTAGGAAAAAATGTCTTTGAGCTGTGAGATGCTTGTATATTTTGAAAATATGATTATATGCATGTGT
TTGTATTTTATGACTTGGATAATCTGAAAATCAATTTGCTTTGTCAATGCTTCCTGGATTAGAATTCCACTATTT
GGTCCCTATCCTAGTCTACTAAAGAAAATTGAGCGGGAAACATCGCGGGGAAAGTGGCGTTTCATTAATTGCTACT
GTAACCTCGTCTAATGGAGAGGTTGTTAGATTACAGAACTTCTATAAGACTGAACTGAACAAGGAGGAGATGTATA
TACGCTACATTCACAACTCTATGATCTGCATCTCAAAGCACAGAACTTTACAGAAGCTGCATATACCCCTCCTCT
TATATGACGAGCTACTGGAATGGTCTGATCGGCCCCCTCAGGGAGTTCCTGACCTACCCCATGCAAACAGAATGGC
AGCGCAAAGAGCACCTGCACCTCACCATCATCCAGAACTTTGACAGAGGCAAATGTTGGGAGAATGGCATTATCT
TGTGCCGGAAGATTGCAGAGCAGTATGAGAGTTATTATGACTACAGAAACCTGAGCAAGATGCGGATGATGGAAG
CCTCTTTGTATGACAAAATTATGGACCAGCAACGTCTTGAACCAGAGTTCTTCAGAGTTGGATTTTATGGAAAAA
AATTTCCATTTTTCTTAAGAAATAAGGAGTTTGTGTGTGCGAGGGCATGACTACGAGAGGCTGGAAGCCTTCCAAC
AGAGAATGCTGAACGAGTTCCCCCATGCCATCGCCATGCAGCACGCCAACCAGCCCGATGAGACCATCTTCCAGG
CAGAAGCTCAGTATTTGCAGATATATGCTGTGACTCCCATTCAGAGAGCCAGGAGGTCTGCAGAGAGAGGGTG
TTCCGGACAACATCAAAAGCTTCTATAAAGTGAATCACATCTGGAAATTCCGCTATGACCGACCATTTACAAAG
GCACAAAAGATAAAGAGAATGAATTCAAGAGTCTCTGGGTGGAGAGAACGTCATTATACTTGGTGCAGAGTTTGC
CTGGCATCTCTCGCTGGTTTGAAGTGGAAAAGCGTGAAGTGGTAGAAATGAGTCCTCTGGAATGCAATTGAAG
TGCTAGAAAAATAAGAATCAGCAGCTGAAGACTCTGATTAGTCAGTGTGAGACAAGACAGATGCAGAATATTAATC
CCCTGACTATGTGCCTGAATGGAGTTATAGATGCTGCAGTTAATGGTGGCGTTTCCAGGTATCAAGAGGCATTCT
TTGTCAAAGAATATATCTTAAGTCACCCTGAAGATGGGGAGAAAATTGCACGATTAAGAGAGCTGATGCTTGAGC
AGGCACAGATTCTGGAATTTGGTTTGGCCGTGCATGAGAAGTTTGTACCTCAAGATATGAGACCCCTTCACAAAA
AGCTGGTTGACCAATTCTTTGTGATGAAGTCGAGCTTAGGGATACAGGAGTTCTCTGCTTGTATGCAAGCCAGTC
CTGTCCATTTTCTAATGGAAGCCCTCGTGTGTGTAGAACTCAGCACCTGCTTCTGTGAGCCCAGATGGTACCA
GGGTAATTCCTAGACGCAGCCCGTTAAGTTACCCAGCTGTCAACCGATATTCTTCTCCTCACTGTCTCACAAG
CTTCTGCTGAAGTAAGCAATAATACAGGGCAATCAGAAAAGCTCTGATGAAGTCTTTAATATGCAGCCAAAGTCCAT
CTACCTCAAGCTTGAGTTCTACTCACTCGGCTTACCTAATGTGACAAGTTCTGCTCCATCGAGTGCCAGAGCTT
CTCCTTTGTTGTCTGACAAACACAAACATTCCCGAGAAAACCTTTGCTGTACCAAGAGAGAGACCATGCAGTG
CCATCTATCCAACACCTGTGGAGCCTTCGAGAGGATGCTGTTTAATCATATTGGAGACGGGGCCTTGCCACGCA
GTGACCCAAATCTCTCTGCACCTGAAAAAGCTTACCAGCAAGACACACGACATCAGTATCCCCCTCGCCTGCCG
GGCGATCTCCATTGAAGGGCTCTGTGCAGTCTTTCACCCCTCTCCAGTGGAGTACCACTCGCCAGGACTCATCT
CCAACCTCCCTGTCTTGTGCGGCAGCTACAGCAGTGGGATTTCTTCTCTCAGCCGGTGCAGCACGTGCGAAACCT
CAGGCTTTGAAAATCAGGTGAATGAACAGTCGGCCCCCTGCCGGTGCCAGTGCCGGTGCCCGTGCCGAGCTACG
GCGGGGAGGAGCCAGTGCGCAAGGAGAGCAAGACTCCGCCCCGTACAGCGTCTACGAGCGGACTCTGCGGCGCC
CCGTCCCGCTACCTCACAGCCTCTCCATCCCCGTACGTCGGAGCCGCCGCGCTGCCCCCAAGCCTCTGGCAG
CGCGATCCAGCCACCTGGAGAATGGGGCCCGGAGGACTGACCCCGGCCGCGGCCAGGCCCTGCCCCGCAAGG
TCTCTCAGTTATAAGTCACTTTTCTATGTACCTGCGATGCATTCTTTGCCCGTTTACAAAATAAGAAGTATGATG
AGAAGACATTTAGTGTAGGCACTTTAATAACTTACTCAGCTCCTTCGATGAATGGAATTAAGTGTGCTTATTAA
ATATCATGTTGCACAATATTAAGTGTGATCTAAACGCCAGATGTTAAATGAAGTATGGCTGAATTTCAAT
AAAACGTTTCTCATTTGGAAGTGGTAAATAGTGATAAAGACTCCTTTTGTACCTTTTTATGTTCACTTTTTTTA
TATAGTTTAAATCTTAAACCAATACGATATTGTCAAACGATACAATGTGTGACAATGTTGTATCGTTTTTACTGA
ATACTTGATACTTGGAGAAAGCTTATTAAGTCAGTGCACATCCTAACACAGTGGTCCTTATTTTAGAAGACTTCT
GTAAATAAGGCAAGGTTTATCAGTGCAGATCATCAGAATTAAAGTTCAAGCAGGCGAGCAAGACAGTATACTTAA
GGGGTTGCAAAGCTTGGGACTGGAAATTGTTTTGTCTTGAAACAAAATACTTCTTTAAGGTTGCTTTTGTGTGT
TGACTGCTGTCTACATTTCGTAAAATTCTATTTTGTGAATTGGTAGCTAAATCCCTTACTACCCTGACACCGTGGT
ATCTACTGTATTTCTTTTCAAGGTGCAATTTGCTTCAGAGTTCCAATCAGCTAGATTAAGCAAGAGGCTCCAGAA
GAAATGTTTACTTGAATTTTGGCGTTTCTTTCTTGATAGTTTCTATATAAAATTTGTCAATTGAACAAGAGCAAA
TGCTGAAGTATTAATGAGGCACAAATGACTGTGCCCCATTAGCAAGAATTCAGGAATCAATACAGACAGTATTAA
ATTAATAGCTTAAGTGAAGAAAAAATAAAGTGTGAAAATGTATTAGCACGATTAAATGGCAAAGGACTTAT
AAAAGGCAAGGGCATTAACTTTTCACTCCTGCACAAAATAAATAATCCTCACGACTCTCACTTTTACCAGTGA
GTTTGTCTTAGCTGACCTGTCTCTTTCTTGAAGGAGGATTGCTGTAGACTTCTCTAGCTTGAATATTGCAAC

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FIGURE 982B

ATAGCATCTTAGGTCTAGATAGGGATGCTAATGCCAGTTGTAGAAGTGTGAAAAAGCACCTTGTATGTAGTAAT
GTATTTTATATCTTTGTTTTTTCTTTTACTGACTGTTTATAACACTCAATTGACAATAGATATGAACTGTATTTT
AAATCATACTGTAAATATTTTCCCTCTTTTGTGGGAAGCTCATTTTAGTTTAACCATGTTTGTGTTGTTGGTGA
GCTTACCTGGAAGGCAGTGACCACTTTTTTATATTCTCTTAATGAAACCATTCAGCAGGTATATGCTGTTGAGGC
TGGTTATAGAGGTTTTCTATAATAAATGTTCAAGTATTTTTGTATATAACTGGTTAATTTTAATAAGAGATACCA
TTATGTGTAAAAAAAAGTAAAAATAAACGCAAACAGTTGTTGATGCAGTATGATTGTTATAATTATGCCAAATAC
TTTACGTATGGAAAAAGAATATTTGTACATATGTGCTTTTAACAATTCTGCCATATTGACTTTACAATTTTGAAT
GTCGGAAAAATTAATATATGTAAATATTTATGTTTAGTGAAAGTGTTCAATAATTGAGAAAAGGAACATATGCAT
TTTAGCTTTGTATCTTGCAAGTTTGCAGTCAGAAATTTTTTGAAGTAGCTTTTGCTTTTGATAACACTTCGTGT
TTGTAACCACATTCATATATATATACATATATATGTGAAGCTCCATATTTCTGTTGCTTTAAAGAAGTAAAACCT
TCCATTTAAATAAGATGACATGCATAAGATAACAAAGCTTCCTTGATTTCTTTTCTGTTGTAATTTAATAGATT
TGTTGACTAGTGCTTGCGCACATTATAAATCAGTGTTATTTGCTCTTGGAGCCATTTTTTAAAAAAAATTTTGGC
AGTGAGCAGTTGAATTTATCTTGAATTTATCATGTGTGTGTTATTTCTGAAGCAGCTACATAGCAGAACATTTTAA
GAGATTCTGTTAGCCACATGTTTATGTTGGTTGCTGCTGAATGGTAAATATTAAATAAAAATTACCAGATTAATC
TT

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FIGURE 983

MAGKWRFINCYCNSSNGEVVRLQNFYKTELNKEEMYIRYIHKLYDLHLKAQNFTEAAYTLLLYDELLEWSDRPLR
EFLTYPMQTEWQRKEHLHLTIIONFDRGKCWENGIILCRKIAEQYESYYDYRNLSKMRMMEASLYDKIMDQORLE
PEFFRVGFYGKKFPFFLRNKEFVCRGHDYERLEAFQQRMLNEFPHAIAMQHANQPDETIFQAEAQYLQIYAVTPI
PESQEVLRQREGVPDNIKSFYKVNHIWKFRYDRPFHKGTKDKENEFKSLWVERTSLYLQSLPGISRWFVEVEKREV
VEMSPLENAIEVLENKNQQLKTLISQCQTRQMKNINPLTMCLNGVIDAAVNGGVSRYQEAFVKEYILSHPEDGE
KIARLRELMLEQAQILEFGLAVHEKFVPQDMRPLHKKLVDQFFVMKSSLGIQEFSAQMVASPVHFPNGSPRVCRN
SAPASVSPDGTRVIPRRSPLSYPAVNRYSSSSLSSQASAEVSNITGQSESSDEVFNMQPSPTSSLSSTHSASPN
VTSSAPSSARASPLLSDKHKHSRENSCLSPRERPCSAIYPTPVEPSQRMLFNHIGDGLPRSDPNLSAPEKASPA
RHTTSVSPSPAGRSPLKGSVQSFTSPVEYHSPGLISNSPVLGSGYSSGSISSLSRCSTSETSGFENQVNEQSAPL
PVPVPVPVPSYGGEEPVRKESKTPPPYSVYERTLRRPVPLPHSL SIPVTSEPPALPPKPLAARSSHLENGARRTD
PGPRPRPLPRKVSQ L

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FIGURE 984

CTCCGGCCCCGGCCCCGAGCACCGCCTCCCCAGCCAGCGCCGCCGCG**ATG**GCGGAGGACAGCGAGTCTGCGGCCAG
CCAGCAGAGCCTGGAAGTGGACGACAGGACACGTGCGGGATAGACGGGGACAATGAGGAGGAGACGGGAGCACGC
CAAAGGAAGTCTTGAGGGGTATTTGGGAGCCAAAAAGAAAAAGAAACAGAAGAGAAAAAAGGAGAAACCAA
TTCCGGAGGCACCAAGTCAGACTCGGCATCTGATTCCCAGGAGATTAAATTCAGCAGCCTTCGAAAAATCCCAG
TGTTCCAATGCAGAAGTTGCAGGATATCCAGAGAGCAATGGAGCTGCTATCCGCATGCCAGGGCCCCAGCCAGGAA
CATTGATGAGGCTGCAAAGCACAGATACCAGTTTGGGACACACAACCGGTACCAAAACTAGATGAAGTCATAAC
ATCTCATGGTGCAATTGAACCAGATAAAGACAACGTACGCCAAGAACCGTATTCTTTGCCACAGGGTTTTATGTG
GGACACTTTAGACTTGAGTGATGCCGAAGTGCTCAAGGAGTTATACACGTTGTTAAATGAGAATTACGTAGAAGA
TGATGACAATATGTTCCGATTTGACTATTCACCCGAGTTCCTGTTGTGGGCTCTGCGTCCACCAGGCTGGCTCCT
GCAGTGGCACTGTGGGGTCAGAGTGTCTTCAAATAAAAACTGGTGGGTTTCATAAGTGCCATCCCAGCAAACAT
TCGGATTTATGACAGTGTGAAGAAGATGGTAGAAATCAACTTTCTTTGTGTTTCATAAGAAGTTGAGATCGAAACG
GGTAGCCCCAGTGCTAATCCGAGAGATCACTAGAAGAGTGAACCTGGAAGGGATCTTCAGGCTGTGTACACCGC
GGGAGTGGTTCTTCTAAGCCCATAGCCACATGCAGATACTGGCATCGATCACTAAACCCAGAAAAATTGGTAGA
AGTGAAATTTTCTCACTTGAGTAGAAATATGACTTTACAGAGAACAATGAAGCTATACAGACTTCCAGATGTTAC
AAAGACTTCAGGTTTGAGACCAATGGAACCAAAAGATATCAAATCAGTTCGAGAATTAATCAACACTTACCTGAA
GCAGTTTTCATCTGGCTCCAGTGATGGATGAAGAGGAAGTAGCCCACTGGTTTCTCCCCGGGAGCACATTATTGA
CACGTTTGTAGTGGAGAGCCCCAACGGTAAACTGACTGATTTCTGAGCTTCTATACGCTCCCCCTCCACGGTGAT
GCACCACCTGCTCACAAGAGCCTCAAAGCCGCCTACTCATTCTACAACATCCACACAGAGACGCCCTGCTGGA
CCTCATGAGCGACGCGCTCATCCTGGCTAAATCGAAAGGATTGATGTATTCAATGCACTGGATTTGATGGAAAA
TAAGACATTCTTGAAAACTCAAGTTTGGTATAGGAGATGGCAATTTGCAGTATTACCTGTACAATTGGAGGTG
TCCAGGTACAGATTCTGAAAAGGTTGGACTAGTACTACAAT**TAG**ATGGATATTTTTTATTTCTAGAACTCTGACATC
ATCATTGTGTTAATATTTAATGATTTCTGGAAGTCCATTCCAAAGAAGAATAAAAGCACAACTCAAGTGAAATTG
AAGTAGTCGATAATCAGAAAAGATGACAAAAGTCCACATGTGACATTTGTACGTTTCTAGCTAGAATGTTAACT
TCATCCTTTTTTTACTGTTGACCTATTTGTGGGAGGGATGAAAGGCTACAAAGAGCACATTCTTGTAATTTTCAA
ATTTTTGCCTGCTCTTGAAGAGGTATTTTTTACCCTTAGAAAAGGGACTGTTTTTCTATGGACTAAGTAGAAG
TTACAGAGTCATGTAAGAAAATCTTTGCTATTGTGTGGAGAGAAATTGCTGCATTTCTGTTTCTTAAGTGATGGT
ACATTTGTCCATGTAACAGAACAAAAGATCCATTTGGAAATTTTTTTTTACTGGTATCACCTTACATGGTATCACT
GGGAACATTTATGGAATCAACACTTCTGTAGCTCAGTGACAGGTGGTGGTTGTTTAAGTGCAGAGCAATATTTAA
TGTAAGTGGTACTAGTACATGTATTTCTCCATAAGCAGAGTTGCCGAATCAATAAACATGCAAGTTTGTACTTTG
ATCTTTACCAGGTCAGTGGATTGCTTCAAAGCAGAGTTTTGTGCAAGCACTCACTGTGCTCTCTGAAAGAGCCT
GAGGCCGGGCGTGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGCAGATCATGAGGTCAGG
AGATCGAGACCATTCTGGCCAACATAGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCGGGCGTGGTGG
CGTGTGCCGTGTAGTCCCAGCTGCTTGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTGAGAGGTGAGGTTGCAGT
GAGCCGAGATCGAGCCACTGCACTCCAGCCTGGGTGACAGAGCGTGAGACTCCGTCTCAAAAAAAAAAAAAAAAAAG
AAAGAGCCTGTACCCGCGACTAACTAGACTTTTCTTGCTGTTGTGCAAAGTTCAAGTTTCTTCTCAGCAACATCAA
GGATATATGAAGAAAAGGAAATAAAAACTGTAAAGTCAAAGAGATGCCTGGTGGAACCTTATTCGTGCTATCAG
GGCATTGATAGTTTGAATGTTTTTATTACTTATGCAAAATTGCACATACTCCTCTATGCTGATTTTATCATGAAA
ACTGTCATGTGTCATGCTAATGAAAATGTCTTATTTGTAAATAAGTATTCATAATTTTGCCG

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FIGURE 985

MAEDSESAASQQSLELDDQDTCGIDGDNEEETEHAKGSPGGYLGAKKKKKQKRKKEKPNSGGTKSDSASDSQEI
KIQQPSKNPSVPMQKLQDIQRAMELLSACQGPARNIDEAAKHRYQFWDTPVPKLDEVITSHGAIEPDKDNVRQE
PYSLPQGFMWDTLDLSDAEVLKELYTLLNENYVEDDDNMFRFDYSPEFLLWALRPPGWLLQWHCGVRVSSNKKLV
GFISAIPANIRIYDSVKKMVEINFLCVHKKLRSKRVAPVLIREITRRVNLEGIFQAVYTAGVVLPKPIATCRYWH
RSLNPRKLVEVKFSHLSRNMTLQRTMKLYRLPDVTKTSGLRMEPKDIKSVRELINTYLYKQFHLAPVMDEEEVAH
WFLPREHIIDTFVVESPNGKLTDFLSFYTL PSTVMHHPAHKSLKAAYSFYNIHTETPLLDLMSDALILAKSKGFD
VFNALDLMENKTFLEKLKFGIGDGNLQYYLYNWRCPGTDSEKVGLVLQ

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FIGURE 986

GCACACCATGGTGCACCTTCTGTGGCCTACTCACCCCTCCACCGGGAGCCAGTGCCGCTGAAGAGTATCTCTGTGAG
CGTGAACATTTACGAGTTTGTGGCTGGTGTGTCTGCAACTTTGAACTACGAGAATGAGGAGAAAAGTTCCCTTTGGA
GGCCTTCTTTGTGTTCCCATGGATGAAGACTCTGCTGTTTACAGCTTTGAGGCCTTGGTGGATGGGAAGAAAAAT
TGTAGCAGAATTACAAGACAAGATGAAGGCCCGCACCAACTATGAGAAAGCCATCTCCAGGGGCCACCAGGCCTT
CTTATTGGAGGGGGACAGCAGCTCCAGGGATGTCTTCTCTTGCAATGTGGGTAACTCCAACCTGGGTGCAAGGC
GGCAGTCACCCCTGAAGTATGTGCAGGAGCTGCCTCTGGAAGCAGATGGGGCTCTGCGCTTTGTGCTCCAGCTGT
CCTGAATCCTAGATAACAGTTCTCTGGGTCGTCTAAGGACAGTTGCCTTAATGTGAAGACTCCTATAGTCCCTGT
GGAGGACCTGCCCTACACACTCAGCATGGTGCACCATAGATTCCAGCATGGCATTGAGAAGGTCCAATCCAA
CTGCCCCCTTGAGTCTACCGAGTACCTAGGAGAGGACAAGACTTCTGCTCAGGTTTCCCTGGCTGCTGGACACAA
GTTTGATCGGGACGTGGAACCTCTGATTTACTACAATGAGGTGCATACCCCCAGCGTGGTTTTGGAGATGGGGAT
GCCTAACATGAAGCCAGGTCATTTGATGGGAGATCCATCTGCAATGGTGAGTTTCTATCCAAATATCCCAGAAGA
TCAACCATCAAATACCTGTGGAGAGTTTATCTTTCTCATGGACCGCTCGGGAAGTATGCAGAGCCCCATGAGTAG
CCAGGATACATCTCGCTGCGAATACAGGCAGCCAAGGAAACACTGATTTTGCTGCTGAAGAGTTTACCTATAGGC
TGTTATTTCAACATCTATGGATTTGGCTCTTCTATGAGGCATGCTTTCGGAGAGTGTGAAGTACACTCAGCAA
ACAATGGAGGAGGCTCTGGGGAGAGTGAAGCTTATGCAGGCCGACCTAGGGGGCACTGAAATCTTGGCACCCTC
CAGAACATTTACAGGGGACCCTCCATCCCAGGCCACCCCTACAGCTTTTTGTCTTTACAGATGGAGAAGTTACA
GACACGTTTAGTGTAATTAAGAAGTTAGGATCAACAGACAGAAACACAGGTGTTTCTCATTTGGTATTGGAGAA
GGCACCTCCACCAGCCTAATAAAAAGGTATTGCCCGGGCATCAGGGGGCACCTCAGAATTTATCACAGGCCAAAGAC
AGGATGCAGTCCAAGGCTCTCAGGACTCTGAAACGCTCTCTGCAGCCTGTGGTAGAGGATGTCTCTCTGAGCTGG
CATTTGCCCTCTGGTCTGTCTGCTAAAATGCTTTCCCCAGAACAGACTGTCATCTTTAGGGGTCAGAGATTAATC
AGCTATGCCCAGCTGACCGGGAGGATGCCAGCAGCAGAGACAACAGGAGAAGTATGCCTCAAATATACACTCCAG
GGCAAGACTTTTGAGGATAAGGTGACATTTCCCTCTACAACCCAAGCCTGATGTCAACCTCACCATTACCGCCTT
GCTGCCAAGTCCTTGCTCCAGACCAAGGACATGGGCCTCAGGGAGACTCCAGCAAGTGATAAAAAAGATGCATTG
AACCTTAGCCTTGAGTCTGGTGTCTAAGCTCCTTCACAGCTTTTCATTGCTATCAATAAGGAGCTCAACAAGCCG
GTTACAGGGGCTCTGGCTCATAGGGACGTCCCAAGGCCAATTCTGTTGGGTGCTTCTGCCCCATTGAAGATAAAAA
TGCCAATCAGGTTTTTCGAAAGGCCTTACACTCTGACCGTCTCTCTCTGTCATCTCAGCCCAGAGGGGAACCTTATG
TGTTATAAGGCCAAGACATTCCAGATGGACGATTACAGTCTCTGTGGGTTGATAAGTCACAAGGACCAGCACAGT
CCAGGCTTTGGAGAGAATCACCTTGTGCAGCTGATTTACCACCAAAATGCAAATGGTTCCTGGGATCTGAATGAA
GATCTAGCCAAGATCCTAGGTATGAGTTTGAAGAAATAATGGCTGCACAGCCTGCCGAGCTTGTGGATTCTCTCA
GGCTGGGCCACCATCCTGGCCGTGATCTGGCTGCACAGCAATGGTAAGGACTTGAAGTGTGAATGGGAGCTTCTG
GAAAGGAAGGCCGTGGCCTGGATGCGTGCCCATGCAGGCTCCACCATGCCTTCGGTTGTGAAAGCTGCTATTACT
TTCTGAAGTCATCTGTGGATCCTGCTATCTTTGCCTTTTGAAGATACCATCCAGAAAAAGAAGTGCCCTTTAATT
TGCTACTGTCAATTTCCCTCTAGTATCACTTTTGCTGTGATGATGTGTTCTTGTGTATTATAACTCTTTATTTTTG
CCATAAAAGTAAAGGATGCTTACTCCACTTCGCTTCTCTGCTCCAGGTTCACTTTGGATATGATCTTTCTTTTCC
CAACATATGCCCTCAGAAAAGTGACAGTGGTCCCAGAACCTATTCCCTTTCTTGAGGGAGTTCAAAACATTCTATA
GGCAGTAATGTTCCCTCCAGGGTTTCCAGGGAAACAACATGAAAAACAGGTGACATGAACTACAGACTAAAGATT
GCAGCATTTATGTTAGAGAATGCTTGAATTAGAGAATTTTCTGCATTATCTTTGTCTGTTCACTTTCTATCTTAT
ATACTTATCAGGGCCATACTGGTAAGCTTGCCTAGGAGGAGTTAGAGGGAAGTTGAAAGCCAACATCTGGATCAA
TGTAATGTCAAGATCACAAAGACAGAGACTGCAGGGGTCCACTGTGAGAGGTGACACTGTTGGGGACCTTCCCTGA
TTCATTCTTCTTGGGCTTTGCTAGCCTGTACAACCTACATGTCTTTTCTTCCACTGCCTGAAAGACTTGGGTTGA
ACTATAACTGTTGGAGAGAGATGTTCCCTCTTTAATCATGAAACACCTTAAGAAGTCTATAATGCAATCCTTAGTC
CTACCCTGAACCTATGTGTCTCTAAGTCAGGCCCTGATCTAGTGCAGTAAAGGGAAGGGTGGGCTTAATGGGAG
CTTTGCCTGGGACCTGAACCTGGAGCACTTACCGCATTAGGAAGAAAGGAGCTCCCCGTAATCGTTCCCTGACCCCT
TGTGTCTCATATACCCTATCCTGGTGGAAATGACCCTATTTGATATGCTGTCCCTTAAAAATAACTTGTATCAATA
TTAAAAATGACTATTTCTACCCTTTAAAAAATAA
AAAAA

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FIGURE 987

MEEALGRVKLMQADLGGTEILAPLQNIYRGPSIPGHPLQLFVFTDGEVTDTFSVIKEVRINRQKHRCFSFGIGEG
TSTSLIKGIARASGGTSEFITGKDRMQSKALRTLKRSLQPVEDVSLSWHLPPGLSAKMLSPEQTVIFRGQRLIS
YAQLTGRMPAAETTGEVCLKYTLQGKTFEDKVTFPLQPKPDVNLTIHRLAAKSLLQTKDMGLRETPASDKKDALN
LSLESGVISSFTAFIAINKELNKPVQGGLAHRDVPRPILLGASAPLKIKCQSGFRKALHSDRPPSASQPRGELMC
YKAKTFQMDDYSLCGLISHKDQHSPGFGENHLVQLIYHQNANGSWDLNEDLAKILGMSLEEIMAAQPAELVDSSG
WATILAVIWLHSNGKDLKCEWELLERKAVAWMRAHAGSTMPSVVKAATFLKSSVDPAIFAF

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FIGURE 988

AAGCCACAGGCTCCCTGGCTGGCGTCAGCTAAAGTGGCTGTTGGGTGTCCGCAGGCTTCTGCCTGGCCGCCGCCG
CCTATAAGCTACCAGGAGGAGCTTTACGACTTCCCGTCCCTGCGGGAAGTGGCGGGCACGATCGCAAGGTAGCGCA
GAAGCTTCTCAAATGGCCAGCGCCAGCTGCAGCCCCGGCGGCGCACTCGCCTCACCTGAGCCTGGGAGGAAAAATTC
TTCCAAGGATGATCTCCCACTCAGAGCTGAGGAAGCTTTTCTACTCAGCAGATGCTGTGTGTTTTGATGTTGACA
GCACGGTCATCAGTGAAGAAGGAATCGGATGCTTTCATTGGATTTGGAGGAAATGTGATCAGGCAACAAGTCAAG
GATTAACGCCAAATGGTATATCACTGATTTTGTAGAGCTGCTGGGAGAACCGGAAGAATAACATCCATTGTCATAC
AGCTCCAAACAACCTTCAGATGAATTTTACAAGTTACACAGATTGATACTGTTTGCTTACAATTGCCTATTACAA
CTTGCTATAAAAAGTTGGTACAGATGATCTGCACTGTCAAGTAACTACAGTTAGGAATCCTCAAAGATTGGTTT
GTTTGTTTTAACTGTAGTTCCAGTATTATATGATCACTATCGATTTCTGGAGAGTTTTGTAATCTGAATTCTT
TATGTATATTCCTAGCTATATTTATACAAAGTGTTTTAAGAGTGGAGAGTCAATTAAACACCTTTACTCTTAGG
AATATAGATTCGGCAGCCTTCAGTGAATATTGGTTTTTTCCCTTTGGTATGTCAATAAAAGTTTATCCATGTGT
CAGAAAAAAAAAAAA

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FIGURE 989

MASASCSPGGALASPEPGRKILPRMISHSELRLFYSAVCFDSTDVISEEGIGCFHWIWRKCDQATSQG

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FIGURE 990A

CCCCGGGCAGGTGGTTGCAGCATTGCAGAAGAGAAAAAGTAGTTTGTGGCAGAGAATCAGGTATTAATGGAAAGA
CTCAATCAATCTGATTCTATAGAAGACCCTAACAGTCCAGCAGGAAGAAGGCATTTGCAGCTCCAGACTCAATTA
GAACAGCTCCAAGAAGAAACATTTCAGACTAGAAGCAGCCAAAGATGATTATCGAATACGTTGTGAAGAGTTAGAA
AAGGAGATCTCTGAACTTCGGCAACAGAATGATGAACTGACCACCTTTGGCAGATGAAGCTCAGTCTCTGAAAGAT
GAGATCGACGTGCTGAGACATTCTTCTGATAAAGTATCTAAACTAGAAAGGTCAAGTATCACTAGAATTCAGCGGC
CGCTGAATTCTAGGGAGGCGCGCCCCCGGCTGGGCGCCGCGCGCACCATGGGGCTCCAGCGCTCGAGTTCAGC
GACTGCTGCCTCGATAGTCCGCACTTCCGAGAGACGCTCAAGTCGCACGAAGCAGAGCTGGACAAGACCAACAAA
TTCATCAAGGAGCTCATCAAGGACGGGAAGTCACTCATAAGCGCGCTCAAGAATTTGTCTTCAGCGAAGCGGAAG
TTTGCAGATTCTTTAAATGAATTTAAATTTTCAGTGCATAGGAGATGCAGAAACAGATGATGAGATGTGTATAGCA
AGGTCTTTGCAGGAGTTTGCCACTGTCCTCAGGAATCTTGAAGATGAACGGATACGGATGATTGAGAATGCCAGC
GAGGTGCTCATCACTCCCTTGGAAGATTTTGCAGAAAGAACAGATCGGGGCTGCCAAGGAAGCCAAAAAGAAATAT
GACAAAGAGACAGAAAAGTATTGTGGCATCTTAGAAAAACACTTGAATTTGTCTTCCAAAAAGAAAGAATCTCAG
CTTCAGGAGGCAGACAGCCAAGTGGACCTGGTCCGGCAGCATTCTATGAAGTATCCCTGGAATATGTCTTCAAG
GTGCAGGAAGTCCAAGAGAGAAAGATGTTTGAGTTTGTGGAGCCTCTGCTGGCCTTCTGCAAGGACTCTTCACT
TTCTATCACCATGGTTACGAACCTGGCCAAGGATTTCTGGGGACTTCAAGACACAGTTAACCATTAGCATAACAGAAC
ACAAGAAATCGCTTTGAAGGCACTAGATCAGAAGTGAATCACTGATGAAAAAGATGAAGGAGAATCCCCCTTGAG
CACAAGACCATCAGTCCCTACACCATGGAGGGATACCTCTACGTGCAGGAGAAACGTCACCTTTGGAACCTCTTG
GTGAAGCACTACTGTACATATCAACGGGATTCCAAACAAATCACCATGGTACCATTTGACCAAAAGTCAGGAGGA
AAAGGGGGAGAAGATGAATCAGTTATCCTCAAATCCTGCACACGGCGGAAAACAGACTCCATTGAGAAGAGGTTT
TGCTTTGATGTGGAAGCAGTAGACAGGCCAGGGGTTATCACCATGCAAGCTTTGTGCGGAAGAGGACCGGAGGCTC
TGGATGGAAGCCATGGATGGCCGGGAACCTGTCTACAACCTCGAACAAAGACAGCCAGAGTGAAGGGACTGCGCAG
TTGGACAGCATTTGGCTTCAGCATAATCAGGAAATGCATCCATGCTGTGGAACCAGAGGGATCAACGAGCAAGGG
CTGTATCGAATTGTGGGGGTCAACTCCAGAGTGCAGAAAGTTGCTGAGTGTCTGATGGACCCCAAGACTGCTTCT
GAGACAGAAAACAGATATCTGTGCTGAATGGGAGATAAAGACCATCACTAGTGTCTGAAGACCTACCTAAGAATG
CTTCCAGGACCACTCATGATGTACCAGTTTCAAAGAAGTTTCATCAAAGCAGCAAAACTGGAGAACCAGGAGTCT
CGGGTCTCTGAAATCCACAGCCTTGTTTCATCGGCTCCCGAGAAAAAATCGGCAGATGTTACAGCTGCTCATGAAC
CACTTGGCAAAATGTTGCTAACAACCACAAGCAGAATTTGATGACGGTGGCAAACCTTGGTGTGGTGTGTTGGACCC
ACTCTGCTGAGGCCCTCAGGAAGAAACAGTAGCAGCCATCATGGACATCAAATTTCAGAACATTGTCAATTGAGATC
CTAATAGAAAAACCACGAAAAGATATTTAACACCGTGCCCGATATGCCTCTCACCAATGCCAGCTGCACCTGTCT
CGGAAGAAGAGCAGTGACTCCAAGCCCCCGTCTGCAGCGAGAGGCCCTGACGCTCTTCCACACCGTTCACTCA
ACAGAGAAACAGGAACAAAGGAACAGCATCATCAACTCCAGTTTGAATCTGTCTCATCAAATCCAAACAGCATC
CTTAATTCCAGCAGCAGCTTACAGCCCAACATGAACTCCAGTGACCCAGACCTGGCTGTGGTCAAACCCACCCGG
CCCAACTCACTCCCCCGAATCCAAGCCCAACTTCACCCCTCTCGCCATCTTGCCCATGTTCTCGGCGCCATCC
AGCCCTATGCCACCTCATCCACGTCCAGCGACTCATCCCCGTCAGGTCTGTTGCAGGGTTTGTGTTGGTTTTCT
GTTGCTGCCGTTGTTCTCTCATTGGCTCGGTCCTCTCTTCATGCAGTGTTTCAGCCTCCTCGTCAACTTTGTTCCC
TGCCATCCAAACCTGCACTTGCTTTTGACAGGCCAGAAGAAGCGGTACATGAAGACTCCAGCACACCGTTCCGG
AAGGCAAAAGCCTTGATGCCGTGCAAAGCTGAACATGACTCAGAACTTTCGTTACAGCAGGCACGGTCTTCGAT
AATGTTCACCCATCTCAGGAGCCTGGCTGGTTGGAGGGGACTCTGAACGGAAAGACTGGCCTCATCCCTGAGAAT
TACGTGGAGTTCTCTTAACCGTGGGCCCCAGCAGAACTGCTGAGCTTTACATGGTATCCATGACAACCTGCTGATT
CCAGTGTGAGGGCCATTTCTCTTTGCCACTGAGAAATGCAGCGTGACTGACTCTGTTGCTACCTGTCAACATGAA
TGTTTCTGTGAGCTCTGGTGTCACTCATCTCCATGATCATCTCAGCCAACATGCATCAGTACTGCAAGAAAAGAA
GTCAATCAGCAGAGGAGAGCATTGATAACTAAGAGGAAGACTTGCAAAAGCCGTTTTCTCATGAGTACCCTGAAT
AGGGGGCACTCATTTTGTGTTCAACGGTCCAAACGCCCAACCTTCAGAAAAGAGGAAGTCAGATAGAAATAGTCCCT
GAGAGCACACTGTGTAGCTAAGCCTGCTGGGGCTGGGTGAAGAAATTGGCGCTGAGATCCAGGCTGGATCCATTG
CTTTTGTGTTACAATAGGCACTCTCTCTACCCACCTCTCAGTACTTGAGACTTAAAGTGCTACAGGCAGCTGGAT
CTGTTTGCATGCAGGATGAAGAGGGTTAAACACTGTTTATATAAGATCCAATCTCTCACCATCTCTAAAGCAGC
CGTTGGCCTGTATCAGTGAGATACAATCCAGTCTTCTCATGCACGGGAACACACACACCCTGCGTTTTCTCCCTC
CCAGGCTAGGAACCTCTCTGCCACCAAGGGCTGCCATCCATCGCCTAGTAACCACGGCAACCCAACCTACTCTAA

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FIGURE 990B

AACCAAACCAAAAAATAAAATAACACATCCTCTTTGCATGACACATTTTTTTTTCTCCCTTTTTTGGTACACTTT
TTTTGAATGGTTTTCTAACAACCTTGAAGCACAGGATCAAGGAATTAGGGTGGTCTACTTGAGGCAGATGGGATAG
TAGCTGGGAACGTGCCCTTTCTGATTAATTTTCTGCTCCATGCAACTGATGTTTGTGTTTTTAAAGGGTAAGATGC
TGAGATTAAATTACATAGTCTTAATATTTCTGTTCCCTCCATGCAACTGATGTTTGTGTTTTTAAAGGGTAAGATGC
TGCTCCCAATGGGTGATGCCATCTGACTGGTTTCCCATGTCCTCCCATTCACCCATCTCTGCTCCCACCCTTG
CCTGCCCTCTAACCCACCCTGGCCAGCCCCCTTGCCCTACTCTGGGCTGCTGAACACTGGTGCTGTGGTGGTTTT
CAAGGTTAATTCCTAGGCTAACCGTATGGCCTATAGTTTAAAAGCACATCTATGTTCACTGCCACTCTGAAAAAG
GGAATTATTTCTCAGTCTTTCAAGGCTTGAGACTAATATAGGCCATTGTGATTGAGGAAGAAACCAAGGTTGGA
GGGTGGGATGAGTACCCTCTGAAAAAGGGAATTTGCTGGTGAAAAGAGGCTGGATCTTGTTGGAAGACTGTCTTGG
ATGGGGAAGTACTACCTGGAGATTTCAAATTCACTTGGCCTGCAAACAACAGAGTTATCCGTATCTTCCACATGT
GAATGTCATTGCAAGGGTGACTCTAGACAAACTACAAACCGATGGACCGTCAAGCTCCCCAGGAGCCCCCTTGGAT
GGCAGCGTTGCTTCAGAGTGTTCCTGTTTCTGGAATTCCTTGTTAGGGAACCTTAAAGAAGAAAAGAAAAACTT
GAATTGTGTTGAATTACTGTATCTTTTACTTTTTTTTTTTTGAAGATAAACTTGTAATAGAGTGATTTGAAAT
ACTATATGGCAAAGTTTTATATTTGATATTCTTTAAGTTAGTTGCTCACACACTTAGGCTTTGATTGCTGAAGAA
GTATGTTTAAAGAGGGAGAGAGGGGAGGCAAGCTGAAGAGAGTCAAGGTCAGTGTCCCCGCTTCGGCCTGAAGGA
AAGAGAAGACATTTCTATGGCCTTGCTCTCTGCTGTCTGTTGGTGGGCACGACACATCAGTGGTGTTCAGTCTT
TATGTGTTTTTAAAGCATCCCTTGGGCTTTGGATTGAGATGGGAAGAGCATCTCCAGGCAATGAGTTTTTCAA
GAATGCCTACTTAGTAGTAAGATGAAGCTCAGGATTTAAATAAGTGGGGTCAGGCATTCGAGTTTTTGTCTTTCT
TCTCAGGTGTATTTCTTGGTACCCCCAAGATATCAGGCCAGAAAGAGATGAGTCAGTTGCTGTGCTCTTTACTTC
TTTTTCTCCACATCTTCTGAGGCTTTAGAAATGTGGACAAGCTAGTTTTCAAATTTTGTGTGCGTCTGTAAGTTC
TTAAAGAACCAGCTTCTTAGAATGTTTCAATGTGCTGCTGCTTTCCCTTCTCCTAAACATTTTAAACT
CTTCCCTTTCACCTCCAATTCCCGTGATCCCCAAAAGAGGAAGACTCCAGGAGGGGTATAGATTGTGCCGTCA
TAGCTTTACAGGTGGTTTTTAAAGTTAGCAGGGGTTTGTCATGGTGATTCACTACTCAGTTTATCAGCTCAAGGAT
TATACAGCTCTTTTTCCGGGAACCTCACCCAGGAGCAAGCGAGACACTACCATTGAATCAGGGAATGAGAATTAAGA
ATGGACAGGACCAAGACAGAAGCTCAAGAAAGCCACTGGGGAAAACCTCGAGAAGAAAGGGAGTATACTAGTAGGTT
AGATCTGTGAACCTGAGGACAAGAAGACCTTGGGAAAATGGAGGCCTCAGGGGATGTGCATTCACATACTATTACG
CTTCTCAAAGAGAGACCAACATCATGCTTTTAAACACATTTGATGAGGTTTTTTATTTGTGTTTTTGTGTTTTT
TGAGATGGAGTCTCACTCTGTGGCCAGGCTGGAGTGAGTGGCGCGGTCTTGGCTCACTGCAACCTCCGCTCC
CGGGTTCAAGTGATTCTCCTGTCTCAGCCTCCCAAGTAGCTGGGACTGCAGGCATGAGCCATCACACCCGGCTGG
TTTTTTGTGTTTTTAGTAGAGATGGGGTTTTGCCATGTTTGCCGGGTGATCTCGAACTCCTGACCTCAAGTGAT
CTGCCCCTTCGGACCCCCAAAGTGCTGGGATTCCAGGTGTGAGCCGCTGCGGCCGACCACATTTGATGTTTGAA
GTTGTAATCTGTCCCATCATAAACTTACCTGGAGCTCATGTGGAGGAACAGAAGGCCAAGATCCTTGCTTTGGGG
GTGCTCACGAAGCATCCCTGTAGACACTTGGCCCCAGCTTCACTGCTTGAAGCATGTCCCTCCCTCTTGAGTT
GGCTCTGATTTGAAATCGGGAGAAACAGAGCTGCTGCCAATGGGATCTTTAGGTAACCTCCCTCCCTAGCTTCCG
TGTGTCTGTGCAGTGCCCATGAGCTGCTGCCAATGGGATCTTTCAGGTACCCCTCCCAAGCTTCCCTGTGGCTG
TGCGGTGCCCTTGACAGATGGCTTCTCTGTTTCCCTTTGCCAGCCAGGCTCCCTCCTTCTATTAGCTACAAA
ACTGGATAAACTTCAAGATATGAGCCAATGAGTAGGAAGGAACCTTGAAGACTAAAGATTTTACTCTCTCCCTAT
CCATGCCCCCTACCTCTGACTCTCTCTGTGTGAACAGGAAACTTTAGGGTAGATGAGGAGAATGAATTGGTTATC
AGAGTGGAAGACCATGGCCAGGATCCCTGAGCTTTCCAGTAGCCTCCAGTTTCCTTTGTAAGACCCAGGGATC
ACTTAGCCATAGCCTGAATCTTTAGGGGTATTAAGGTCAGCCTCTCACTCTTCCCTCAGGTTACTAACAAAAATT
TCGTAGCTAAAGAAATGCCATGGCCGGGTGAGTGGCTCACGCCTATAATCCCAGCACTTTGGGAGGCCGAGGCGG
GCGGATCACGAGGTCAGGAGATTGAGACCATCCTGGCTACGACGGTGAAGCCCCGTCTCTGCTAAGAGTGCAAAA
AATTAGCCGGGTGTGGTGGCGGGCGCTGTAGTCCCAGCTACTCTGGAGGCTGAGGCAGGAGAATGGCATGAGCC
CGGGAGGCGGAGATTGCGGTGAGCCAAGATCGCGCCCCCTGCACTCCAGCCTGGGTGACAGAGCCAGACTCCGTCT
CAAAGG

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FIGURE 991

MGLPALEFSDCCLDSPHFRETLSHEAELDKTNKFIKELIKDGKSLISALKNLSSAKRKFADSLNEFKFQCIGDA
ETDDDEMCIARSLQEFATVLRNLEDERIRMIENASEVLITPLEKFRKEQIGAAKEAKKKYDKETEKYCGILEKHLN
LSSKKKESQLQEADSQVDLVRQHIFYEVSLEYVFKVQEVQERKMFEFVEPLLAFLQGLFTFYHHGYELAKDFGDFK
TQLTISIQNTRNRFEGTRSEVESLMKKMKENPLEHKTISPYTMEGYLYVQEKRHFGTSSWVKHYCTYQRDSKQITM
VPFDQKSGGKGGEDESILKSCTRRKTDSEIKRRCFDVEAVDRPGVITMQALSEEDRRLWMEAMDGREPVYNSNK
DSQSEGTAQLDSIGFSIIRKCIHAVETRGINEQGLYRIVGVNSRVQKLLSVLMDPKTASETETDICAWEIKTIT
SALKTYLRMLPGPLMMYQFQRSFIKAAKLENQESRVSEIHSVLVHRLPEKNRQMLQLLMNHLANVANNHKQNLMTV
ANLGVVFGPTLLRPQEETVAAIMDIKFQNIIVIEILLENHEKIFNTVPDMPLTNAQLHLSRKKSSDSKPPSCSERP
LTLFHTVQSTEQEQRNSIINSSLESVSSNPNSILNSSSSSQPNMNSSDPDLAVVKPTRPNSLPNPSPSTPLSP
SWPMFSAPSSPMPTSSSTSSDSSPVRSVAGFVWFSVAAVVLSSARSSLHAVFSLLVNFVPCHPNLHLLFDRPEEAV
HEDSSTPFRKAKALYACKAEHDSLSFTAGTVFDNVHPSQEPGWLEGTLLNGKTGLIPENYVEFL

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FIGURE 992

TTTTTTTTTTTTTGGCGGAGTCGAGCGGGTGCTGCTAGCGGAGGCGCCATATTGGAGGGGACAAAACTCCGGCG
ACAGCGAGTGACACAAATAAACCCCTGGACCCCTTGTTCCCTCAGCTCTAAGGGCCGCGATGTTGTACCTAGAA
GACTATCTGGAAATGATTGAGCAGCTTCCTATGGATCTGCGGGACCGCTTCACGGAAATGCGCGAGATGGACCTG
CAGGTGCAGAATGCAATGGATCAACTAGAACAAAAGAGTCAGTGAATTCTTTATGAATGCAAAGAAAAATAAACCT
GAGTGGAGGGAAGAGCAAATGGCATCCATCAAAAAAGACTACTATAAAGCTTTTGAAGATGCAGATGAGAAGGTT
CAGTTGGCAAACCAGATATATGACTTGGTAGATCGACACTTGAGAAAGCTGGATCAGGAAGCTGGCTAAGTTTAAA
ATGGAGCTGGAAGCTGATAATGCTGGAATTACAGAAATATTAGAGAGGCGATCTTTGGAATTAGACACTCCTTCA
CAGCCAGTGAACAATCACCATGCTCATTACATACTCCAGTGGAAAAAAGGAAATATAATCCAACCTTCTCACCAT
ACGACAACAGATCATATTCCTGAAAAGAAATTTAAATCTGAAGCTCTTCTATCCACCCTTACGTCAGATGCCTCT
AAGGAAAATACACTAGGTTGTGCGAAATAATAATTCACAGCCTCTTCTAACAATGCCTACAATGTGAATTCCTCC
CAACCTCTGGGATCCTATAACATTGGCTCGTTATCTTCAGGAAGCTGGTGCAGGGGCAATTACCATGGCAGCTGCT
CAAGCAGTTCAGGCTACAGCTCAGATGAAGGAGGGACGAAGAACATCAAGTTTAAAAGCCAGTTATGAAGCATTT
AAGAATAATGACTTTCAGTTGGGAAAAGAATTTCAATGGCCAGGGAAACAGTTGGCTATTCATCATCTTCGGCA
CTTATGACAACATTAACACAGAATGCCAGTTCATCAGCAGCCGACTCACGGAGTGGTGCAGAAAGAGCAAAAAACAAC
AACAAGTCTTCAAGCCAGCAGTCATCATCTTCCTCCTCCTCTTCTTCCTTATCATCGAGTTCTTCATCATCAACT
GTTGTACAAGAAATCTCTCAACAAACAAGTGTAGTGCCAGAATCTGATTCAAATAGTCAGGTTGATTGGACTTAC
GACCCAAATGAACCTCGATACTGCATTTGTAATCAGGTATCTTATGGTGAGATGGTGGGATGTGATAACCAAGAT
TGCCCTATAGAATGGTTCCATTATGGCTGCGTTGGATTGACAGAGGCACCAAAAGGCAAATGGTACTGTCCACAG
TGCACTGCTGCAATGAAGAGAAGAGGCAGCAGACACAAATAAAGGTGGTCCTTTTGTGTTGATGAAGAAATAAACT
TCAGCTGAAGATTTTATATAGGACTTTAAAAAGAAAGAGAAGAGAAAGAAGAAACAATGCATTTCCAGGCAACCAC
TTAAAGGATTTACATAGACAATCCTATAAGATCTTGAACCTGAATTTTATGGGTTGTATTTTAATAATGTAAGTA
AATTATTTATGCACTCCTGGTGTGCTATGAATATTATTCCAGTTAGCCTTGGATTATTTTCAAGTGGCCAACATATG
CAGACATTTGTACTCCTCAACCATTTTCTCAAAGTAATGGGCATTCTATGATTTAGACTTCAAGGAATTCGAATG
ATGAAGATTTTAAGGAAAGTATTTTATATTCAACAGGTATATTCTGCTGCATGTACTGTACTCCAGAGCTGTTAT
GTAACACTGTATATAAATGGTTACAAAAAAAAAAAAAAAAA

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FIGURE 993

MLYLEDYLEMIEQLPMDLRDRFTEMREMDLQVQNAMDQLEQRVSEFFMNAKKNKPEWREEQMASIKDYYKALED
ADEKVQLANQIYDLVDRHLRKLDQELAKFKMELEADNAGITEILERRSLELDTPSQPVNNHHAHSHTPVEKRKYN
PTSHHTTTDHIPEKKFKSEALLSTLTSDASKENTLGCRNNNSTASSNNAYNVNSSQPLGSGYNIGSLSSGTGAGAI
TMAAAQAVQATAQMKEGRRRTSSLKASYEAFKNND FQLGKEFSMARETVGYSSSSALMTTLTQNASSAADSRSRGR
KSKNNNKSSSQSSSSSSSSSSSLSSSSSSSTVVQEISQQTTVVPESDSNSQVDWTYDPNEPRYCICNQVSYGEMVG
CDNQDCPIEFWFHYGCVGLTEAPKGKWYCPQCTAAMKRRGSRHK

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FIGURE 994

GCGGCCAGGCCCGGAACCTTCCCTGGTCGTGCGCCCTATGTAAGGCCAGCCGCGGCAGGACCAAGGCGGCGGTG
TCAGCTCGCGAGCCTACCCTCCGCGGACGGTCTTGGGTCGCTGCTGCCTGGCTTGCCTGGTCGGCGGCGGGTGC
CCCGCGCGCACGCGCAAAGCCCGCCGCGTTCCCCGACCCAGGCCGCGCTCTGTGGGCCTCTGAGGGCGGCATGC
GGGACTACGACGAGGTGACCGCCTTCCCTGGGCGAGTGGGGGCCCTTCCAGCGCCTCATCTTCTTCTGCTCAGCG
CCAGCATCATCCCCAATGGCTTACCGGCCTGTCTCCGTGTTCTGATAGCGACCCCGGAGCACCCTGCCGGG
TGCCGGACGCCGCGAACCTGAGCAGCGCCTGGCGCAACCACACTGTCCCACTGCGGCTGCGGGACGGCCGCGAGG
TGCCCCACAGCTGCCGCCGCTACCGGCTCGCCACCATCGCCAACCTTCTCGGCGCTCGGGCTGGAGCCGGGCGCG
ACGTGGACCTGGGGCAGCTGGAGCAGGAGAGCTGTCTGGATGGCTGGGAGTTCAGTCAGGACGTCTACCTGTCCA
CCATTGTGACCGAGTGGAACTGGTGTGTGAGGACGACTGGAAGGCCCCACTCACAATCTCCTTGTCTTCGTGG
GTGTGCTGTTGGGCTCCTTCATTTACAGGCGAGCTGTCAGACAGGTTTGCCGGAAGAATGTGCTGTTTCGTGACCA
TGGGCATGCAGACAGGCTTCAGCTTCTGCGATCTTCTCGAAGAATTTTGAGATGTTTGTGCTGCTGTTTGTCC
TTGTAGGCATGGGCCAGATCTCCAATATGTGGCAGCATTTGTCTGGGGACAGAAATTTTGGCAAGTCAGTTC
GTATAATATTCTCTACGTTAGGAGTGTGCATATTTTATGCATTTGGCTACATGGTGTGCTGCCACTGTTTGTCTTACT
TCATCCGAGACTGGCGGATGCTGCTGGTGGCGCTGACGATGCCGGGGGTGCTGTGCGTGGCACTCTGGTGGTTCA
TCCCTGAGTCCCCCGATGGCTCATCTCTCAGGGGACGATTTGAAGAGGCAGAGGTGATCATCCGCAAGGCTGCCA
AAGCCAATGGGATTGTTGTGCCTTCCACTATCTTTGACCCGAGTGAGTTACAAGACCTAAGTTCCAAGAAGCAAC
AGTCCCACAACATTCTGGATCTGCTTCGAACCTGGAATATCCGGATGGTCACCATCATGTCCATAATGCTGTGGA
TGACCATAFCAGTGGGCTATTTTGGGCTTTCGCTTGATACTCCTAACTTGCAATGGGGACATCTTTGTGAAGTGT
TCCTTTACGCGATGGTTGAAGTCCCAGCATATGTGTTGGCCTGGCTGCTGCTGCAATATTTGCCCGCGCTATT
CCATGGCCACTGCCCTCTTCTGGGTGGCAGTGTCTTCTCTTCATGCAGCTGGTACCCCCAGACTTGTATTATT
TGGCTACAGTCCCTGGTGATGGTGGGCAAGTTTGGAGTCACGGCTGCCTTTTCCATGGTCTACGTGTACACAGCCG
AGCTGTATCCACAGTGGTGAGAAACATGGGTGTGGGAGTCAGCTCCACAGCATCCCGCCTGGGCAGCATCCTGT
CTCCCTACTTTCGTTTACCTTGGTGCCTACGACCGCTTCTGCCCTACATTCTCATGGGAAGTCTGACCATCCTGA
CAGCCATCCTCACCTTGTCTTCTCCAGAGAGCTTCGGTACCCCACTCCAGACACCATTGACCAGATGCTAAGAG
TCAAAGGAATGAAACACAGAAAACTCCAAGTCACACAAGGATGTTAAAGATGGTCAAGAAAGGCCCAATCC
TTAAAGCACAGCCTTCTAAACATCGCTTCCAGTAAGGGAGAACTGAAGAGGAAAGACTGTCTTGTAGAAATGG
CCAGCTTGTGCACTCCGAGTCTTTCAGTGACAAAGGCCTTTGCTGTTTGTCTCTTGACCTGTGTCTGACTTG
CTCTGGATGGGCACCCACACTCAGAGGCTACATATGGCCCTAGAGCACCACCTTCTCTAGGGACACTGGGGCT
ACCTACAGACAACTTCATCTAAGTCCTAACTATTACAATGATGGACTCAGCACCTCCAAAGCAGTTAATTTTCA
CTAGAACCAGTGAGATCTGGAGGAATGTGAGAAGCATATGCTAAATGTACATTTTAATTTTAGACTACTTGAAAA
GGCCCTAATAAGGCTAGAGGTCTAAGTCCCCCACCCTTTCCCACTCCCTCTAGTGGTGAACCTTTAGAGGAA
AAGGAAGTAATTGCACAAGGAGTTTGATTCTTACCTTTTCTCAGTTACAGAGGACATTAAGTGGATCATTGCTTC
CCCAGGGCAGGAGAGCGCAGAGCTAGGGAAAGTGAAAGGTAATGAAGATGGAGCAGAATGAGCAGATGCAGATCA
CCAGCAAAGTGCACCTGATGTGTGAGCTCTTAAGACCACTCAGCATGACGACTGAGTAGACTTGTTTACATCTGAT
CAAAGCACTGGGCTTGTCCAGGCTCATAATAAATGCTCCATTGAATCTACTATTCTTGTTTTCCACTGCTGTGGA
AACCTCCTTGTACTATAGCGTCTTATGTATGGTTTAAAGGAAATTTATCAGGTGAGAGAGATGAGCAACGTTGT
CTTTTCTCTCAAAGCTGTAATGTGGGTTTTGTTTTACTGTTTATTTGTTTGTGTTGTATCCTTTTCTCCTTGT
ATTTGCCCTTCAGAATGCACCTGGGAAAGGCTGGTTCCCTTAGCCTCCTGGTTTGTGTCTTTTTTTTTTTTTTTT
AAACACAGAATCACTCTGGCAATTGTCTGCAGCTGCCACTGGTGCAAGGCCTTACCAGCCCTAGCCTCTAGCACT
TCTCTAAGTGCCAAAAACAGTGTCTATTGTGTGTGTTTCTTTCTTGATACTTAGTCATGGGAGGATATTACAAAA
AGAAATTTAAATTGTGTTTCATAGTCTTTCAGAGTAGCTCACTTTAGTCCTGTAACCTTTATTGGGTGATATTTGT
GTTTCAAGTGAATGTCTTCTCTTTGCTGATTATGTTACCATGGTACTCCTAAAGCATATGCCTCACCTGGTTAA
AAAGAACAACATGTTTTTGTGAAAGCTACTGAAGTGCTTGGGAAATGAGAAAGTTTTAATAAGTAAATGATT
TTTTAAATATCAAAAAAAAAAAAAAAAAA

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FIGURE 995

MRDYDEVTAFLGEWGPFQRLIFFLLSASIIIPNGFTGLSSVFLIATPEHRCRVPDAANLSSAWRNHTVPLRLRDGR
EVPHSCRRYRLATIANFSALGLEPGRDVDLGQLEQESCLDGWEFSQDVYLSTIVTEWNLVCEDDWKAPLTISLFF
VGVLLGSFISGQLSDRFGRKNVLFVTMGMQTGFSFLQIFSKNFEMFVVLFFVLVGMGQISNYVAAFVLGTEILGKS
VRIIFSTLGVCIFYAFGYMVLPLFAYFIRDWRMLLVALTMPGVLCVALWWFIPESPRWLISQGRFEEAEVIIRKA
AKANGIVVPSTIFDPSELQDLSSKKQQSHNILDLLRTWNIRMVTIMSIMLWMTISVG YFGLSLDTPNLHGDI FVN
CFLSAMVEVPAYVLAWLLLQYLPRRYSMATALFLGGSVLLFMQLVPPDLYYLATVLVMVGKFGVTAAFSMVYVYT
AELYPTVVRNMGVGVSSASRLGSILSPYFVYLGAYDRFLPYILMGSLTILTAILTLFLPESFGTFLPDTIDQML
RVKGMKHKRTPSHTRMLKDGQERPTILKSTAF

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FIGURE 996

CACACCTTTCCAAGGACCCCCAACTCTGCTCCGTGCACGTCAAATGCTCCTTTCCCTTGTGTCCAACCCCCTAC
CCCTCTCCCTAACACCCCTCTTCTCAACAAGACTCAGCCTCTCCCCGAGGTGGGTGAGCATCCTTGAGGTTTCCC
ACCCTTAACTGCTGTGTCCCCGGATGGAGCCAGAGAAATGTGGTGGGGGGGCCGGGGCAGAGTTTCAACATTGCC
CCCCAGAAGGAGGAGCCAGAGATGGGGTCTGTCCAGGAAAACAGGATGCCGGAGCCCAGGAGTCGTCAGCCTAGC
AGTTGCCTGGCCTCCAGATGCCTCCCAGGGGAGCAGATCCTAGCATGGGCCCCAGGGGTGAGGAAGGGCCTGGAA
CCAGAATTGTCTGGAACCTGATCTGTACCAACTTTAGGGTCACCTTCCAGCCCTGTGGATGGCAGTGGAATCAG
GACACTCCCTTGAACAGTGAATACGATTTTGCCCTGGTCAACATTGGACGATTAGAGGCTGTGAGCGGCTTGTCC
CGAGTCCAGCTCCTCCGTCCAGGGTCCCTGCATAAAATTTATCCCTGAGGAGATTCTGATTCATGGCCGAGACTTC
CGGCTGCTCAGAGTTGGTTTTTGAGGCTGGAGGCCTAGAGCCTCAGGCTTTTCAGGTGACCATGGCCATTGTCCAA
GCCAGAGCTCAGAGCAATCAAGCCCCAAGTATTCGGGGATAACCCTGAGCAAGGCTGGCCAGGGTTCTGGCTCC
AGAAAACCACCAATTCTCTCATGGAGACAGCGGAAGACTGGGAGACTGAGCGGAAGAAGCAGGCAGCCAGAGGC
TGGAGGGTCAGCACGGTCAACGAGAGGTTGACGTAGCCACCAGGCTCCGGTGTCTCTCTCTTCTTGATTGTG
TCTGGCAGCTCCTCCAGCAGTTTCCAGCTGATTTTGAATTCTCTGAGTTTTTCTCTTCTTGCTCTTCATGACAGTG
TCAGGGTTCTTGACACCCTTACCTTCCTGAGAAATACCCCTGGGAGCGCGGAAGCAGAGCGGACAGGTCAGTG
ACTTCTATTTTTGACTCGTGTTTTTTTTTTCCATTGAGATGTACTCTCTGAAGTTTGGTCTTGATTGTGTTTTATGA
GAAGTGAGGTCTGTGAGTGGGGAGGGGAGATTTATTTCTCATTTTTCAGGACGAGACTTTTTGCCCTACATCTTTCC
TAGAATAAGAGGTGAGAATCTCATGATTTGTCTCTAGATGTGGGAGGATTGTGTGTAACCATCTTTTTCTTGCT
TCTCTGTCCAGTTAAACTCCTATACACAAGTCTACACCCAGGATACTCCAGCCTCCAGCTGGGAACTCTTTTA
ACCTGCAGCTGTCTGTCTGGGACTGGGATTTACGTTATAGCAATGCACAGATACTACAATTCCAGAATCCTGGCT
ATGACCCAGAACACTGTCCAGATTCTGGCTCCCTAGACCACAGCCAAGCTTCATGGTTCTTGAGCCCCCAGTT
TTGTGTGGCTCTTCTCTAGAGGAGCATTGACCCCCCTGAATCAGCTCTGTCTTGGCGGGACAGTCCTTCCCTGC
TGGCAGTCTCTTCTCGTTGGCTCCCTCGACCTGCTATCTCCTCTGAAAGCTGGCTGACCAGGAATGGGGTCTCCC
CTCACATTGGGGAGCTTGCCCTTTACCTCCAGGGCTGCTGCTGCCTGGGTATCTGGGACCCCAGATCAGGCTCTG
GAGACGCTGCTACCTGAGGGGAAGGCCTGAGGTCCAGGTAAGAAGGGAAAATAGACTGGGAGTGGGACAAGGGAC
TTGACTCTGCTGAACCAGATGAACAGGAGCTGGAAAGGCAAGGAGCTGAAGCCTCTGGGAGTCTGGGAAGTGAAG
TTCTACTCCTCTTGGCATCAAACAAGGTTTGGGAGTGTAGGAGGTGCGGGAAAGTGCTTGTGGCTTAGATTAAGT
GGAATTTAGGGCATAGCTGAAAGGGGAAACAGAATTAAGACACCAGAAGTAGCAGAGAAGCAGGGGGCCAGAGC
TACAACAGTATTCTTCTCTGTTCCCTCTTTGCCTCCTCCCCAGATGGGCCTCTCATCTCCCACAATCTCTGGCCTC
CAGGATGAGCTATCCCATCTTCAGGAGTTATTACGGAAAGGACACCAAGAATATCTCCTGAGGATCACTCCAAGA
AAAGAGATCCACATAACCATTCTCAATCCCCTGAAATTGCTGGCATTCTCAAAGGCAGGGCAGAGGGGGATCTGG
GGTAGAGGGAGGGTTCTGTCTAATCTTTTTTTTTTCTTTTGTATCTGCACTTGCAGCCTCAGCTTTCATACTTCA
GCCCTTAAGTTCACTAAGAAGGTCTGAGTTTCTGCTGCAGATAGTGGTGTTAACTGCTCCAACCTCTTGTCTTGCT
TAGTTTCTACAAATATTTTTTGCTTCTTGTCAATTTGAAGGATTAAGAAACAAAACAATCCAGAAATTGATCGGTT
TTTTTAGGCCAATCCCATCCCTTCTGGATAACCAGATGTTAAATCATGAGATCAGAGATGCTGTTTCATCAGTCCC
AACAAGATGGCCTAGAAATCGCATTCTCACCTCGCCTTGCTGCTGCTTTAATTCCAAGTTCTATTTCTTCCCTTA
TAGTTTCTATGGGAATGAGGCGGATACAGGAAACACCCTATCTCCTCTGTATTTTTGTAGTGGAATTTCTATTT
AAGGGGCTCATTAAAGCATAGTATTTATACAC

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FIGURE 997

MGSVQENRMPEPRSRQPSSCLASRCLPGEQILAWAPGVRKGLEPELSGTLIC TNFRVTFQPCGWQWNQDTPLNSE
YDFALVNIGRLEAVSGLSRVQLLRPGSLHKFIPEEILIHGRDFRLLRVGFEAGGLEPQAFQVTMAIVQARAQSNQ
AQQYSGITLSKAGQGSGSRKPPIPLMETAEDWETERKKQAARGWRVSTVNERFDVATRLRCFSSSLIVSGSSSSS
FQLILNSLSFSFLLFMTVSGFLTPLPS

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FIGURE 998

CCCAGACCTAGAACTACCCAGAGCAAGACCACAGCTGGTGAACAGTCCAGGAGCAGACAAG**ATCG**GAGACAAATTC
CTCTCTCCCCACGAACATCTCTGGAGGGACACCTGCTGTATCTGCTGGCTATCTCTTCCTGGATATCATCACTTA
TCTGGTATTTGCAGTCACCTTTGTCTCGGGGTCCTGGGCAACGGGCTTGTGATCTGGGTGGCTGGATTCCGGAT
GACACACACAGTCACCACCATCAGTTACCTGAACCTGGCCGTGGCTGACTTCTGTTTCACCTCCACTTTGCCATT
CTTCATGGTCAGGAAGGCCATGGGAGGACATTGGCCTTTTCGGCTGGTTCTGTGCAAATTCGTCTTTACCATAGT
GGACATCAACTTGTTTCGGAAGTGTCTTCCTGATCGCCCTCATTGCTCTGGACCGCTGTGTTTTCGTCTGCATCC
AGTCTGGACCCAGAACCACCGCACCGTGAGCCTGGCCAAGAAGGTGATCATTGGGCCCTGGGTGATGGCTCTGCT
CCTCACATTGCCAGTTATCATTTCGTGTGACTACAGTACCTGGTAAAACGGGGACAGTAGCCTGCACTTTTAACTT
TTCGCCCTGGACCAACGACCCTAAAGAGAGGATAAATGTGGCCGTTGCCATGTTGACGGTGAGAGGCATCATCCG
GTTTCATCATTGGCTTCAGCGCACCCATGTCCATCGTTGCTGTGAGTTATGGGCTTATTGCCACCAAGATCCACAA
GCAAGGCTTGATTAAGTCCAGTCGTCCCTTACGGGTCCTCTCCTTTGTGCGCAGCAGCCTTTTTTCTCTGCTGGTC
CCCATATCAGGTGGTGGCCCTTATAGCCACAGTCAGAATCCGTGAGTTATTGCAAGGCATGTACAAAGAAATTGG
TATTGCAGTGGATGTGACAAGTGCCCTGGCCTTCTTCAACAGCTGCCTCAACCCCATGCTCTATGTCTTCATGGG
CCAGGACTTCCGGGAGAGGCTGATCCACGCCCTTCCCGCCAGTCTGGAGAGGGCCCTGACCGAGGACTCAACCCA
AACCAGTGACACAGCTACCAATTCTACTTTACCTTCTGCAGAGGTGGAGTTACAGGCAAAG**TGAG**GAGGGAGCTG
GGGGACACTTTCGAGCTCCAGCTCCAGCTTCGTCTCACCTTGAGTTAGGCTGAGCACAGGCATTTCTGCTTAT
TTTAGGATTACCCACTCATCAGAAAAAAAAAAAAAAAAAGCCTTTGTGTCCCTGATTTGGGGAGAATAAACAGATAT
GAGTTT

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FIGURE 999

METNSSLPPTNISGGTPAVSAGYLFLDIITYLVFAVTFVLGVLGNGLVIWVAGFRMTHTVTTISYLNLA VADFCFT
STLPFFMVRKAMGGHWPFGWFLCKFVFTIVDINLFGSVFLIALIALDRCVCVLHPVWTQNHRTVSLAKKVIIGPW
VMALLLTLPV IIRVTTVPGKTGTVACTFNFSPWTNDPKERINVAVAMLTVRGIIRFIIGFSAPMSIVAVSYGLIA
TKIHKQGLIKSSRPLRVLSFVAAFFLCWSPYQVVALIATVRIRELLQGM YKEIGIAVDVTSALAFFNSCLNPML
YVFMGQDFRERLIHALPASLERALTEDSTQTSDTATNSTLPSAEVELQAK

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FIGURE 1000

GCTACACTAGAGCAGAGTACGAGTCTGAGGCGGAGGGAGTAATGCCAGGACAAGCGTTTAGAAAAGTTTCTTCCAC
TCTTTGACCGAGTATTGGTTGAAAGGAGTGCTGCTGAAACTGTAACCAAAGGAGGCATTATGCTTCCAGAAAAAT
CTCAAGGAAAAAGTATTGCAAGCAACAGTAGTCGCTGTTGGATCGGGTTCTAAAGGAAAGGGTGGAGAGATTCAAC
CAGTTAGCGTGAAAAGTTGGAGATAAAGTTCTTCTCCCAGAATATGGAGGCACCAAAGTAGTTCTAGATGACAAGG
ATTATTTCTTATTTAGAGATGGTGACATTCTTGAAAGTACGTAGACTTGAAATAAGTCACTATTGAAATGGCATC
AACATGATGCTGCCCATTCCTGAAGTTCTGAAATCTTTCGTCATGTAAATAATTTCCATATTTCTCTTTTATA
ATAAACTAATGATAACTAATGACATCCAGTGTCTCCAAAATTGTTTCCTTGTACTGATATAAACACTTCCAAATA
AAAATATGTAAAT

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FIGURE 1001

MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQPVSVKVGDKVLLPE
YGGTKVVLDDKDYFLFRDGDILGKYVD

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FIGURE 1002

GAAGCAGGCCTGAGCCTCCCCAAAGGCAGCTCCTGGGGACTCCCAGGACCACAGGCTGAGACGAGACGCAGGGTG
GCTGGAGGAAGTGAGAGGTGAACTCAGCCTGGGACTGGCTGGGCGAGACTCTCCACCTGCTCCCTGGGACCATCG
CCCACCATGGCTGTGGCCCAGCAGCTGCGGGCCGAGAGTGACTTTGAACAGCTTCCGGATGATGTTGCCATCTCG
GCCAACATTGCTGACATCGAGGAGAAGAGAGGCTTCACCAGCCACTTTGTTTTCGTCATCGAGGTGAAGACAAAA
GGAGGATCCAAGTACCTCATCTACCGCCGCTACCGCCAGTTCCATGCTTTGCAGAGCAAGCTGGAGGAGCGCTTC
GGGCCAGACAGCAAGAGCAGTGCCCTGGCCTGTACCCTGCCCACACTCCCAGCCAAAGTCTACGTGGGTGTGAAA
CAGGAGATCGCCGAGATGCGGATACCTGCCCTCAACGCCCTACATGAAGAGCCTGCTCAGCCTGCCGGTCTGGGTG
CTGATGGATGAGGACGTCCGGATCTTCTTTTACCAGTCGCCCTATGACTCAGAGCAGGTGCCCCAGGCACTCCGC
CGGCTCCGCCCGCGCACCCGGAAAGTCAAGAGCGTGTCCCCACAGGGCAACAGCGTTGACCGCATGGCAGCTCCG
AGAGCAGAGGCTCTATTTGACTTCACTGGAAACAGCAAAGTGGAGCTGAATTTCAAAGCTGGAGATGTGATCTTC
CTCCTCAGTCGGATCAACAAAGACTGGCTGGAGGGCACTGTCCGGGGAGCCACGGGCATCTTCCCTCTCTCCTTC
GTGAAGATCCTCAAAGACTTCCCTGAGGAGGACGACCCCACTGGCTGCGTTGCTACTACTACGAAGACACC
ATCAGCACCATCAAGTCTGTGGCCTGGGAGGGAGGGGCTGTCCAGCCTTCCTGCCATCCCTACGACCACCGCCC
CTCACATCACCTTCTCATGGGTCCCTCTCCCACTCCAAAGCCCCCAGTGGCTCCCAGATGAGCCACAATGCTGTA
ACAAGCCATCAACGTCCAGGGTGGCCTGGCCAGCCTCATTTCCCTTTCCCCCACCCCACTTCCAGCCT
GATGCCTCCTTACTCCAGCCTGTACCCCCCTTAGGGACATCGCGGTGGAGGAAGATCTCAGCAGCACTCCCCAT
TGAAAGACCTGCTGGAGCTACAAGGCGGGAGTTCCAGAGAGAGGACATAGCTCTGAATTACCGGGACGCTGAGG
GGGATCTGGTTCGGCTGCTGTGCGATGAGGACGTAGCGCTCATGGTGCGGCAGGCTCGTGGCCTCCCCCTCCAGA
AGCGCCTCTTCCCCTGGAAGCTGCACATCACGCAGAAGGACAACACTACAGGGTCTACAACACGATGCCATGA

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FIGURE 1003

MAVAQQQLRAESDFEQLPDDVAISANIADIEEKRGFTSHFVFVIEVKTGGSKYLIYRRYRQFHALQSKLEERFGP
DSKSSALACTLPTLPKVVYVGKQEIAEMRIPALNAYMKSLLSLPVWVLMDEDVRIFFYQSPYDSEQVPQALRRL
RPRTRKVKSVSPQGNSVDRMAAPRAEALFDFTGNSKLELNFKAGDVIFLLSRINKDWLEGTVRGATGIFPLSFVK
ILKDFPEEDDPTNWLRCYYYEDTISTIKSVAWEGGACPAFLPSLRPPPLTSPSHGSLSHSKAPSGSQMSHNAVTS
HQRPGWPGQPHSPFPHPPTPHFQPDASLLQPVTPLGTSRWRKISAALPY

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FIGURE 1004

GTCAGCAGAGGCCTCGCTCGGGCGCCCAGTGGTCCTGCCGCCTGGTCTCACCTCGCTATGGTTTCGTCTGCCTCTG
CAGTGCGTCCCTCTGGGGCTGCTTGCTGACCGCTGTCCATCCAGAACCACCCACTGCATGCAGAGAAAAACAGTAC
CTAATAAACAGTCAGTGCTGTTCTTTGTGCCAGCCAGGACAGAAACTGGTGAGTGACTGCACAGAGTTCACTGAA
ACGGAATGCCTTCCTTGCGGTGAAAGCGAATTCCTAGACACCTGGAACAGAGAGACACACTGCCACCAGCACAAA
TACTGCGACCCCAACCTAGGGCTTCGGGTCCAGCAGAAGGGCACCTCAGAAACAGACACCATCTGCACCTGTGAA
GAAGGCTGGCACTGTACGAGTGAGGCCTGTGAGAGCTGTGTCCTGCACCGCTCATGCTCGCCCGGCTTTGGGGTC
AAGCAGATTGCTACAGGGGTTTCTGATAACCATCTGCGAGCCCTGCCAGTCGGCTTCTTCTCCAATGTGTCATCT
GCTTTCGAAAAATGTCACCCCTTGACAAGCTGTGAGACCAAAGACCTGGTTGTGCAACAGGCAGGCACAAACAAG
ACTGATGTTGTCTGTGGTCCCCAGGATCGGCTGAGAGCCCTGGTGGTGATCCCCATCATCTTCGGGATCCTGTTT
GCCATCCTCTTGGTGCTGGTCTTTATCAAAAAGGTGGCCAAGAAGCCAACCAATAAGGCCCCCCACCCCAAGCAG
GAACCCAGGAGATCAATTTTCCCGACGATCTTCCTGGCTCCAACACTGCTGCTCCAGTGCAGGAGACTTTACAT
GGATGCCAACCAGTACCCAGGAGGATGGCAAAGAGAGTCGCATCTCAGTGCAGGAGAGACAGTGAAGGCTGCACC
CACCCAGGAGTGTGGCCACGTGGGCAAACAGGCAGTTGGCCAGAGAGCCTGGTGCTGCTGCTGCTGTGGCGTGAG
GGTGAGGGGCTGGCACTGACTGGGCATAGCTCCCCGCTTCTGCCTGCACCCCTGCAGTTTGAGACAGGAGACCTG
GCACTGGATGCAGAAACAGTTCACCTTGAAGAACCTCTCACTTCACCCTGGAGCCCATCCAGTCTCCCAACTTGT
ATTAAAGACAGAGGCAGAAAAA

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FIGURE 1005

MVRLPLQCVLWGCLLTAVHPEPPTACREKQYLINSQCCSLCQPGQKLVS DCTEFTETETECLEPCGESEFLDTWNRET
HCHQHXYCDPNLGLRVQQGTSETDTICTCEEGWHCTSEACESCVLHRSCSPGFGVKQIATGVSDTICEPCPVGF
FSNVSSAFEKCHPWTSCETKDLVVQQAGTNKTDVCGPQDRLRALVVPIIIFGILFAILLVLVFIKKVAKKPTNK
APHPKQEPQEINFDDLPGSNTAAPVQETLHGCQFVTQEDGKESRISVQERQ

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FIGURE 1006

GACCCGGGCC**ATG**CGCGGCCCTCGGGCTCTGGCTGCTGGGCGCGATGATGCTGCCTGCGATTGCCCCAGCCGGCCCC
TGGGCCCTCATGGAGCAGTATGAGGTGCTGTTGCCCGGGCGTCTGCCAGGCCCCCGAGTCCGCCGAGCTCTGCCC
TCCCACCTTGGGCCCTGCACCCAGAGAGGGTGAGCTACGTCCCTTGGGGCCACAGGGGCACAACCTTCACCCCTCCACCTG
CGGAAGAACAGGGACCTGCTGGGTTCCGGCTACACAGAGACCTATACGGCTGCCAATGGCTCCGAGGTGACGGAG
CAGCCTCGCGGGCAGGACCACTGCTTATACCAGGGCCACGTAGAGGGGTACCCGGACTCAGCCGCCAGCCTCAGC
ACCTGTGCCGGCCTCAGGGGTTTCTTCCAGGTGGGGTCAGACCTGCACCTGATCGAGCCCCCTGGATGAAGGTGGC
GAGGGCGGACGGCAGCCGTGTACCAGGCTGAGCACCTGCTGCAGACGGCCGGGACCTGCGGGGTGACGACGAC
AGCCTGGGCAGCCTCCTGGGACCCCGGACGGCAGCCGTCTTCAGGCCTCGGCCCGGGGACTCTCTGCCATCCCCA
GAGACCCGCTACGTGGAGCTGTATGTGGTCTGTGGACAATGCAGAGTTCCAGATGCTGGGGAGCGAAGCAGCCGTG
CGTCATCGGGTGTGAGGTGGTGAATCACGTGGACAAGCTATATCAGAACTCAACTTCCGTGTGGTCTGTGGT
GGCCTGGAGATTTGGAATAGTCAGGACAGGTTCCACGTACAGCCCCGACCCAGTGTACACTGGAGAACCTCCTG
ACCTGGCAGGCACGGCAACGGACACGGCGGCACCTGCATGACAACGTACAGCTCATCACGGGTGTGCACTTCACC
GGGACTACTGTGGGGTTTGCCAGGGTGTCCGCCATGTGCTCCACAGCTCAGGGGCTGTGAACCAGGACCACAGC
AAGAACCCCGTGGGCGTGGCCTGCACCATGGCCCATGAGATGGGGCCACAACCTGGGCATGGACCATGATGAGAAC
GTCCAGGGCTGCCGCTGCCAGGAACGCTTCGAGGCGGGCCGCTGCATCATGGCAGGCAGCATTGGCTCCAGTTTC
CCCAGGATGTTTCAGTGAAGTGCAGCCAGGCCTACCTGGAGAGCTTTTTGGAGCGGCGCAGTCGGTGTGCCCTGCC
AACGCCCCTGACCTCAGCCACCTGGTGGGCGGCCCGTGTGTGGGAACCTGTTTGTGGAGCGTGGGGAGCAGTGC
GACTGCGGCCCCCCCCGAGGACTGCCGGAACCGCTGCTGCAACTCTACCACCTGCCAGCTGGCTGAGGGGGCCAG
TGTGCGCACGGTACCTGCTGCCAGGAGTGCAAGGTGAAGCCGGCTGGTGAAGTGTGCCGTCCCAAGAAGGACATG
TGTGACCTCGAGGAGTTCTGTGACGGCCGGCACCCCTGAGTGCCCGGAAGACGCCTTCCAGGAGAACGGCACGCCC
TGCTCCGGGGGCTACTGCTACAACGGGGCCTGTCCACACTGGCCCAGCAGTGCCAGGCCTTCTGGGGGCCAGGT
GGGCAGGCTGCCGAGGAGTCTGCTTCTCCTATGACATCCTACCAGGCTGCAAGGCCAGCCGGTACAGGGCTGAC
ATGTGTGGCGTTCTGCAGTGCAAGGGTGGGCAGCAGCCCCCTGGGGCGTGCCATCTGCATCGTGGATGTGTGCCAC
GCGCTCACACAGAGGATGGCACTGCGTATGAACCAGTGCCCGAGGGCACCCGGTGTGGACCAGAGAAGGTTTGC
TGGAAGGACGTTGCCAGGACTTACACGTTTACAGATCCAGCAACTGCTCTGCCAGTGCCACAACCATGGGGTG
TGCAACCACAAGCAGGAGTGCCACTGCCACGCGGGCTGGGGCCCCGCCCACTGCGCGAAGCTGCTGACTGAGGTG
CACGCAGCGTCCGGGAGCCTCCCCGTCTCGTGGTGGTGGTCTGTGGTCTCTGGCAGTTGTGCTGGTCAACCTG
GCAGGCATCATCGTCTACCGCAAAGCCCGGAGCCGCATCCTGAGCAGGAACGTGGCTCCCAAGACCACAATGGGG
CGCTCCAACCCCTGTTCCACCAGGCTGCCAGCCGCGTGCCGGCCAAGGGCGGGGCTCCAGCCCCATCCAGGGGC
CCCCAAGAGCTGGTCCCCACCACCCACCCGGGCCAGCCCGCCCGACACCCGGCCTCCTCGGTGGCTCTGAAGAGG
CCGCCCCCTGCTCCTCCGGTCACTGTGTCCAGCCCCACCTTCCAGTTCTGTCTACACCCGGCAGGCACCAAAG
CAGGTCAATCAAGCCAACGTTTCGACCCCCAGTGCCCCAGTCAAACCCGGGGCTGGTGCGGCCAACCTGGTCCA
GCTGAGGGTGCTGTTGGCCCAAAGGTTGCCCTGAAGCCCCCATCCAGAGGAAGCAAGGAGCCGGAGCTCCACAC
GCACCC**TAG**GGGGGCACCTGCGCCTGTGTGGAAATTTGGAGAAGTTGCGGCAGAGAAGCCATGCGTTCCAGCCTT
CCACGGTCCAGCTAGTGCCGCTCAGCCCTAGACCCTGACTTTGCAGGCTCAGCTGCTGTTCTAACCTCAGTAATG
CATCTACCTGAGAGGCTCCTGCTGTCCACGCCCTCAGCCAATTCCTTCTCCCCGCTTGGCCACGTGTAGCCCCA
GCTGTCTGCAGGCACCAGGCTGGGATGAGCTGTGTGCTTGGGGTGCGTGTGTGTGTACGTGTCTCCAGGTGGCC
GCTGGTCTCCCGCTGTGTTTCAGGAGGCCACATATACAGCCCCCTCCAGCCACACCTGCCCTGCTCTGGGGCCTG
CTGAGCCGGCTGCCCTGGGCACCCGTTCCAGGCAGCACAGACGTGGGGCATCCCCAGAAAGACTCCATCCCAGG
ACCAGGTTCCCCCTCGTGCTCTTCGAGAGGGTGTGAGTGAGCAGACTGCACCCCAAGCTCCCGACTCCAGGTCCC
CTGATCTTGGGCCTGTTTCCCATGGGATTCAAGAGGGACAGCCCCAGCTTTGTGTGTGTTTAAAGCTTAGGAATGC
CCTTTATGGAAAGGGCTATGTGGGAGAGTCAGCTATCTTGTCTGGTTTTCTTGAGACCTCAGATGTGTGTTTCAGC
AGGGCTGAAAAGCTTTTATTCTTTAATAATGAGAAATGTATATTTTACTAATAAATTATTGACCGAGTTCTGTAGA
TTCTTGTTAGA

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FIGURE 1007

MRGLGLWLLGAMMLPAIAPSRPWALMEQYEVVLPRRLPGPRVRRALPSHLGLHPERVSYVLGATGHNFTLHLRKN
RDLLGSGYTETYTAANGSEVTEQPRGQDHCLYQGHVEGYPDASAASLSTCAGLRGFFQVGSDLHLIEPLDEGGEGG
RHAVYQAEHLLQTAGTCGVSDDSLGSLLGPRTAAVFRPRPGDSLPSRETRYVELYVVVDNAEFQMLGSEAAVRHR
VLEVNVHVDKLYQKLNFRVVLVGLEIWNQSQDRFHVSPDPSVTLENLLTWQARQRTRRHLHDNVQLITGVDFGTGT
VGFARVSAMCSHSSGAVNQDHSKNPVGVACTMAHEMGNLGMHDENVQGCRCQERFEAGRCIMAGSIGSSFPRM
FSDCSQAYLESFLERPQSVCLANAPDLSHLVGGPVCGNLFVERGEQDCGPPEDCRNRCCNSTTCQLAEGAQCAH
GTCCQECKVKPAGELCRPKKDMCDLEEFCDGRHPECPEDAFQENGTPCSGGYCYNGACPTLAQQCQAFWGPGGQA
AEESCFSYDILPGCKASRYRADMCGVLQCKGGQQPLGRAICIVDVCHALT TEDGTAYEPVPEGTRCGPEKVCWKG
RCQDLHVYRSSNCSAQCHNHGVCNKHQECHCHAGWAPPHCAKLLTEVHAASGSLPVLVVVVLVLLAVVLVTLGI
IVYRKARSRIILSRNVAPKTTMGRSNPLFHQAASRVPAKGGAPAPSRGPQELVPTTHPGQPARHPASSVALKRPPP
APPVTVSSPPFPVPVYTRQAPKQVIKPTFAPPVFPVKPGAGAA NPGPAEGAVGPKVALKPP IQRKQGAGAPTAP

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FIGURE 1008

GAGGAAAATTCTTCCAGCG**ATGG**TCTCCCACTCAGAGCTGAGGAAGCTTTTCTACTCAGCAGATGCTGTGTGTTT
TGATGTTGACAGCACGGTCATCAGAGAAGAAGGAATCGATGAGCTAGCCAAAATCTGTGGCGTTGAGGACGCGGT
GTCAGAAATGACACGGCGAGCCATGGGCGGGGCAGTGCCTTTCAAAGCTGCTCTCACAGAGCGCTTAGCCCTCAT
CCAGCCCTCCAGGGAGCAGGTGCAGAGACTCATAGCAGAGCAACCCCCACACCTGACCCCCGGCATAAGGGAGCT
GGTAAGTCGCCTACAGGAGCGAAATGTTTCAGGTTTTCTAATATCTGGTGGCTTTAGGAGTATTGTAGAGCATGT
TGCTTCAAAGCTCAATATCCCAGCAACCAATGTATTTGCCAATAGGCTGAAATTCTACTTTAACGGTGAATATGC
AGGTTTTGATGAGACGCAGCCAACAGCTGAATCTGGTGGAAAAGGAAAAGTGATTAACTTTTAAAGGAAAAATT
TCATTTTAAGAAAATAATCATGATTGGAGATGGTGCCACAGATATGGAAGCCTGTCCTCCTGCTGATGCTTTCAT
TGGATTTGGAGGAAATGTGATCAGGCAACAAGTCAAGGATAACGCCAAATGGTATATCACTGATTTTGTAGAGCT
GCTGGGAGAACTGGAAGAAT**TAA**CATCCATTGTCGTACAGCTCCAAACAACCTTCAGATGAATTTTACAAGTTATA
CAGATTGATACTGTTTGCTTACAGTTGCCTATTACAACCTTGCTATAGAAAGTTGGTACAAATGATCTGTACTTTA
AACTACAGTTAGGAATCCTAGAAGATTGCTTTTTTTTTTTTTTTTAACTGTAGTTCCAGTATTATATGATGACTAT
TGATTTCTTGAGAGGTTTTTTTTTTTTTTTGGAGACAGAACTCTGCTCTGTTGCCCAGGCTGGAGTGCAGTGGCGC
GGTCTCGGCTCACTGCAAGCTCTGCCTCCCAGGTTACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGAC
TACAGGCACCCGCCACCACATCCGGCTAATTTTTTGTATTTTTTAGTAGAGACGGGGTTTGACCGTGTTAGCCAGG
ATGGTCTTGATCTCCTGACCTTGTGATCCGCCTGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCTTGGGCCAC
CGCGCCCAGCCAATGTCCTAGAGAGTTTTGTGATCTGAATTCTTTATGTATATTTGTAGCTATATTTCATACAAA
GTGCTTTAAGTGTGGAGAGTCAATTAAACACCTTTACTCTTAGAAATACGGATTCCGGCAGCCTTCAGTGAATATT
GGTTTCTCTTGGTATGTCAATAAAAGTTTATCCGTATGTCAGAACGGATTGTGGAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1009

MISHSELRKLFYSADAVCFDVDSTVIREEGIDELAKICGVEDAVSEMTRRAMGGAVPFKAALTERLALIQPSREQ
VQRLIAEQPPHLTPGIRELVSRLQERNVQVFLISGGFRSIVEHVASKLNIPATNVFANRLKFYFNGEYAGFDETQ
PTAESGGKGKVIKLLKEKFHFKKIIMIGDGATDMEACPPADAFIGFGGNVIRQQVKDNAKWYITDFVELLGELEE

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FIGURE 1010

CTCCGCTGCTGTCGCCAGGAGTCACTTCACGAGAAGCCAGGTCAACAACCGTCGGCCCTTGTCTGGAAAAGTAAAA
GTGGATCCTGCCACGTTTCGGAGCTCCCTGGCGCCTCGCCCCGGCTGGAGCTAGAGAACTCGTCCTGTGGCGGCCCC
CGGCGTGGGGCGGGACAGCGGCCCCCTGGAGGGGGCAGTCCCGGGAGAACCCTGCGGCGGCCGGAGCGGTAAAAAT
AAGTGACTAAAGAAGCAGACCTGGGAATCACCTAACATGTCGAGGAGGAGATTTGATTGCCGAAGTATTTTCAGGC
CTACTAACTACAACCTCTCAAATTCCAATAAAAAATGGAAAACTTTAATAATTTCTATATACTTACATCTAAAGAG
CTAGGGAGAGGAAAATTTGCTGTGGTTAGACAATGTATATCAAAATCTACTGGCCAAGAATATGCTGCAAAATTT
CTAAAAAGAGAAGAAGAGGACAGGATTGTCTGGGCAGAAATTTTACACGAGATTGCTGTGCTTGAATTGGCAAAG
TCTTGTCCCCGTGTTATTAATCTTCATGAGGTCTATGAAAAATACAAGTGAAATCATTTTGATATTGGAATATGCT
GCAGGTGGAGAAAATTTTCAGCCTGTGTTTACCTGAGTTGGCTGAAATGGTTTCTGAAAATGATGTTATCAGACTC
ATTAAACAAATACTTGAAGGAGTTTATTATCTACATCAGAATAACATTGTACACCTTGATTTAAAGCCACAGAAT
ATATTACTGAGCAGCATATACCCTCTCGGGGACATTAAAAATAGTAGATTTTGGAATGTCTCGAAAAATAGGGCAT
GCGTGTGAACTTCGGGAAATCATGGGAACACCAGAATATTTAGCTCCAGAAATCCTGAACTATGATCCCATACC
ACAGCAACAGATATGTGGAATATTGGTATAATAGCATATATGTTGTAACTCACACATCACCATTTGTGGGAGAA
GATAATCAAGAAACATACCTCAATATTTCTCAAGTTAATGTAGATTATTCGGAAGAACTTTTTTCATCAGTTTCA
CAGCTGGCCACAGACTTTATTTCAGAGCCTTTTAGTAAAAAATCCAGAGAAAAGACCAACAGCAGAGATATGCCTT
TCTCATTCTTGGCTACAGCAGTGGGACTTTGAAAACCTTGTTTCACCCTGAAGAACTTCCAGTTCCTCTCAAAC
CAGGATCATTCTGTAAGGTCTCTGAAGACAAGACTTCTAAATCCTCCTGTAATGGAACCTGTGGTGATAGAGAA
GACAAAGAGAAATATCCCAGAGGATAGCAGCATGGTTTCCAAAAGATTTTCGTTTCGATGACTCATTACCCAATCCC
CATGAACTTGTTTCAGATTTGCTCTGTTAGCACTTTTTTCTTTGACTCATTGGAAGTGAATTTGAAATTTTATAT
CCACTCCAGTGAGATTATGATTTGTAGCTTCATATATGACATGTTTATATTGTAAATGCACTTTTCCATGGAATA
ATTTAGGGAAGTGTTTTAATGTTAAATTACTAGTTGCTAGCATGTTATGATTTTCATATCCTGAGATAGCTCTGCA
GATAAGAAAATATTTAAATATATGACAAAAGTAAAATTGTACATGTGAAAG

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FIGURE 1011

MSRRRFDCRSISGLLTTTPQIPKMFNNFYILTSKELGRGKFAVVRQCISKSTGQEYAAKFLKKRRRGQDCRA
EILHEI AVL ELAKSCPRVINLHEVYENTSEIILILEYAAGGEIFSLCLPELAEMVSENDVIRLIKQILEGVYYLH
QNNIVHLDLKPQNILLSSIYPLGDIKIVDFGMSRKIGHACELREIMGTPEYLAPEILNYDPITTATDMWNIGIIA
YMLLTHTSPFVGEDNQETYNISQVNVVDYSEETFSSVSQLATDFIQSLLVKNPEKRPTAEICLSHSLWQQWDFEN
LFHPEETSSSSQTQDHSVRSSDKTSKSSCNGTCGDREDKENIPEDSSMVSKRFRFDDSLPNPHELVSDLLC

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FIGURE 1012

CGCCACTTTGCTGGAGCATTCACTAGGCGAGGCGCTCCATCGGACTCACTAGCCGCACTCATGAATCGGCACCAT
CTGCAGGATCACTTTCTGGAAATAGACAAGAAGAACTGCTGTGTGTTCCGAGATGACTTCATTGCCAAGGTGTTG
CCGCCGGTGTTGGGGCTGGAGTTTATCTTTGGGCTTCTGGGCAATGGCCTTGCCCTGTGGATTTTCTGTTTCCAC
CTCAAGTCCTGGAAATCCAGCCGGATTTTCTGTTCACCTGGCAGTAGCTGACTTTCTACTGATCATCTGCCTG
CCGTTTCGTGATGGACTACTATGTGCGGCGTTCAGACTGGAACCTTTGGGGACATCCCTTGCCGGCTGGTGTCTTTC
ATGTTTGCCATGAACCGCCAGGGCAGCATCATCTTCCTCACGGTGGTGGCGGTAGACAGGTATTTCCGGGTGGTC
CATCCCCACCACGCCCTGAACAAGATCTCCAATTGGACAGCAGCCATCATCTCTTGCCCTTCTGTGGGGCATCACT
GTTGGCCTAACAGTCCACCTCCTGAAGAAGAAGTTGCTGATCCAGAATGGCCCTGCAAATGTGTGCATCAGCTTC
AGCATCTGCCATACCTTCCGGTGGCAGCAAGCTATGTTCCCTCCTGGAGTTCCCTCCTGCCCCCTGGGCATCATCCTG
TTCTGCTCAGCCAGAATTATCTGGAGCCTGCGGCAGAGACAAATGGACCGGCATGCCAAGATCAAGAGAGCCATC
ACCTTCATCATGGTGGTGGCCATCGTCTTTGTCACTGTCTTCCTTCCCAGCGTGGTTGTGCGGATCCGCATCTTC
TGGCTCCTGCACACTTCGGGCACGCAGAATTGTGAAGTGTACCGCTCGGTGGACCTGGCGTTCTTTATCACTCTC
AGCTTCACCTACATGAACAGCATGCTGGACCCCGTGGTGTACTACTTCTCCAGCCCATCCTTTCCCAACTTCTTC
TCCACTTTGATCAACCGCTGCCTCCAGAGGAAGATGACAGGTGAGCCAGATAATAACCGCAGCACGAGCGTCGAG
CTCACAGGGGACCCCAACAAAACCAGAGGCGCTCCAGAGGCGTTAATGGCCAACTCCGGTGAGCCATGGAGCCCC
TCTTATCTGGGCCCCAACCTCAAATAACCATTCCAAAGAAGGGACATTGTCACCAAGAACCAGCATCTCTGGAGAAA
CAGTTGGGCTGTTGCATCGAGTAAATGTCACTGGACTCGGCCTAAGGTTTCTGGAACCTCCAGATTCAGAGAATC
TGATTTAGGGAAACTGTGGCAGATGAGTGGGAGACTGGTTGCAAGGTGTGACCACAGGAATCCTGGAGGAACAGA
GAGTAAAGCTTCTAGGCATCTGAAACTTGCTTCATCTCTGACGCTCGCAGGACTGAAGATGGGCAAATTGTAGGC
GTTTCTGCTGAGCAGAGTTGGAGCCAGAGATCTACTTGTGACTTGTGGCCTTCTTCCCACATCTGCCTCAGACT,
GGGGGGGGCTCAGCTCCTCGGGTGATATCTAGCCTGCTTGTGAGCTCTAGCAGGGATAAGGAGAGCTGAGATTGG
AGGGAATTGTGTTGCTCCTGGAGGAAGCCCAGGCATCATTAAACAAGCCAGTAGGTACCTGGCTTCCGTGGACC
AATTCATCTTTAGACAAGCTTTAGAGAAATGGACTCAGGGAAGAGACTCACATGCTTTGGTTAGTATCTGTGTT
TCCGGTGGGTGTAATAGGGGATTAGCCCCAGAAAGGGACTGAGCTAAACAGTGTTATTATGGGAAAGGAAATGGCA
TTGCTGCTTTCAACCAGCGACTAATGCAATCCATTCTCTTGTGTTTATAGTAATCTAAGGGTTGAGCAGTTAAA
AGGGCTTCAGGATAGAAAGCTGTTTCCACCTGTTTCGTTTTTACCATTAAAGGGAAACGTGCCTCTGCCCCACG
GGTAGAGGGGTGCACGTTCTCCTGGTTCCTTCGCTTGTGTTTCTGTACTTACCAAAAATCTACCACTTCAATA
AATTTTGATAGGAGACAAAAA

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FIGURE 1013

MNRHHLQDHFLEIDKKNCVFRDDFIAKVLPPVLGLEFIFGLLGNGLALWIFCFHLKSWKSSRIFLFNLAVADFL
LIICLPFVMDYYVRRSDWNFGDIPCRVLVLFMFAMNRQGSIIFLTVAVDTRYFRVVHPHALNKISNWTAAIISCL
LWGITVGLTVHLLKKKLLIQNGPANVCISFSICHTFRWHEAMFLLLEFLLPLGIILFCSARIIWSLRQRQMDRHAK
IKRAITFIMVVAIVFVICFLPSVVVRIRIFWLLHTSGTQNCVYRSVDLAFFITLSFTYMNSMLDPVVYYFSSPS
FPNFFSTLINRCLQRKMTGEPDNNRSTSVELTGDPNKTRGAPEALMANSGEPPWSPSYLGPTSNNHSSKKGHCHEP
ASLEKQLGCCIE

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FIGURE 1014

CAGGGAGTTGAGAACTGTGGCACAAGGCGAGAGCTGGTTTCCTCTGCCCTGTTAGAGCTGGGGGACTCTTCAGA
GTCAAAGGCCAGAGAGCA**ATGG**AGCTGAGTGGAGCCACCATGGCCCGGGGGCTCGCTGTCCTGCTAGTCTTGTTCC
TGCATATCAAGAACCTGCCTGCCCAGGCTGCGGACACATGTCCAGAGGTGAAGGTGGTGGGCCTGGAGGGCTCTG
ACAAGCTCACCATTCTCCGAGGCTGCCCAGGGCTGCCCGGGGCCCCAGGGCCAAAGGGAGAGGCAGGTGTCATTG
GAGAGAGAGGAGAAACGCGGTCTCCCTGGAGCCCCCTGGAAAGGCAGGACCAGTGGGGCCCCAAAGGAGACCGAGGAG
AGAAGGGGATGCGTGGAGAGAAAGGAGACGCTGGGCAGTCTCAGTCGTGTGCGACAGGCCCCACGCAACTGCAAGG
ACCTGCTAGACCGGGGGTATTTCTGAGCGGCTGGCACACCATCTACCTGCCCGACTGCCGGCCCCCTGACTGTGC
TCTGTGACATGGACACGGACGGAGGGGGCTGGACCGTTTTCCAGCGGAGGATGGATGGCTCTGTGGACTTCTATC
GGGACTGGGCCGCATACAAGCAGGGCTTCGGCAGTCAGCTGGGGGAGTTCTGGCTGGGGGAACGACAACATCCACG
CCCTGACTGCCCGAGGGAAGCAGCGAGCTCCGTGTAGACCTGGTGGACTTTGAGGGCAACCACCAGTTTGCTAAGT
ACAAATCATTCAAGGTGGCTGACGAGGCAGAGAAGTACAAGCTGGTACTGGGAGCCTTTGTCGGGGGCAGTGGG
GTAATTCTCTAACGGGCCACAACAACAACCTTCTTCTCCACCAAAGACCAAGACAATGATGTGAGTTCTTCGAATT
GTGCTGAGAAGTTCCAGGGAGCCTGGTGGTACGCCGACTGTCATGCTTCAAACCTCAATGGTCTCTACCTCATGG
GACCCCATGAGAGCTATGCCAATGGTATCAACTGGAGTGCGGCGAAGGGGTACAAATATAGCTACAAGGTGTCAG
AGATGAAGGTGCGGCCCGCC**TAG**ACGGGCCAGGACCCCTCCACATGCACCTGCTAGTGGGGAGGCCACACCCACA
AGCGCTGCGTCGTGGAAGTCACCCCATTTCCCCAGCCAGACACACTCCCATGACGCCCACAGCTGCCCTTTGCC
CCCAGCTCAGTCAAGCCGCCACATGCCCACAACTCACCAGAGGGAGAATTATGTTTCTAAATATGTTTACTTTG
GGACAGAAAAAAAAAAAA

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FIGURE 1015

MELSGATMARGLAVLLVLFLLHIKNLPAQAADTCPEVKVVGLEGSDKLTILRGCPGLPGAPGPKGEAGVIGERGER
GLPGAPGKAGPVGPKGDRGEKGMERGEKGDAGQSQSCATGPRNCKDLLDRGYFLSGWHTIYLPDCRPLTVLCDMDT
DGGGWTVFQRRMDGSVDFYRDWAAYKQGFSGQLGEFWLGNDNIHALTAQGSSELRVDLVDFEGNHQFAKYKSEFKV
ADEAEKYKLVLGAFVGGSSAGNSLTGHNNNFFSTKDQDNDVSSNCAEKFQGAWWYADCHASNLNGLYLMGPHESEY
ANGINWSAAKGYKYSYKVSEMKVRPA

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FIGURE 1016

GCAGAGCCCAGGGAGCTGGAGGTCGGCGCTTCCTCTCGTGCTTGGTCCACTGACGCGCGGCCCCGCCGCGAGGAG
CATCAGATCC**ATG**CTGCTGCTGACTCGGAGCCCCACAGCTTGGCACAGGCTCTCTCAGCTCAAGCCTCCGGTCCT
CCCTGGGACCCCTGGGAGGCCAGGCCCTGCATCTGAGGTCCTGGCTTTTGTCAAGGCAGGGCCCTGCAGAGACAGG
TGGGCAGGGCCAGCCCCAGGGCCCTGGGCTTCGAACCCGGCTGCTGATCACAGGCCTGTTCTGGGGCTGGACTCGG
TGGGGCCTGGCTGGCCCTGAGGGCTGAGAAGGAGAGGCTGCAGCAGCAAAAGCGAACAGAAGCCCTGCGCCAGGC
AGCTGTGGGGCCAGGGCGACTTCCACCTGCTGGATCACAGAGGCCGGGCTCGCTGCAAGGCTGACTTCCGGGGCCA
GTGGGTGCTGATGTACTTTGGCTTCACTCACTGCCCTGACATCTGCCAGACGAGCTGGAGAAGCTGGTGCAGGT
GGTGCGGCAGCTGGAAGCAGAGCCTGGTTTGCCTCCAGTGCAGCCTGTCTTCATCACTGTGGACCCCGAGCGGGA
CGACGTTGAAGCCATGGCCCGCTACGTCCAGGACTTCCACCCAAGACTGTTGGGTCTGACCGGCTCCACCAAACA
GGTTGCCCAGGCTAGTCACAGTTACCGCGTGTACTACAATGCCGGCCCCAAGGATGAGGACCAGGACTACATCGT
GGACCACTCCATTGCCATCTACCTGCTCAACCCTGACGGCCTCTTCACGGATTACTACGGCCGGAGCAGATCGGC
TGAGCAGATCTCAGACAGTGTGCGGCGGCACATGGCGGCTTCCGCAGTGTCTGTCT**TGAG**CCACTGCAGTCTG
GGCCCCATCATTAACGGGCTGCGTTTAAAA

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FIGURE 1017

MLLLTRSP TAWHRLSQLKPPVLP GTLGGQALHLRSWLLSRQGPAETGGQGQPQGPGLRTRLLITGLFGAGLGGAW
LALRAEKERLQQQKRTEALRQA AVGQGD FHL LDH RGRARCKADFRGQWVLMYFGFTHCPD ICPDELEKLVQVVRQ
LEAEPGLPPVQPVFIITVDPERDDVEAMARYVQDFHPRL LGLTGSTKQVAQASHSYRVYYNAGPKDEDQDYIVDHS
IAIYLLNPDGLFTDYYGRSRSAEQISDSVRRHMAAFRSVLS

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FIGURE 1018

TAACTGAGCGAGGAGCAATTGATTAATAGCTCGGCGAGGGGACTCACTGACTGTTATAATAACACTACACCAGCA
ACTCCTGGCTTCCCAGCAGCCGGAACACAGACAGGAGAGAGTCAGTGGCAAATAGACATTTTTCTTATTTCTTAA
AAAAACAGCAACTTGTTTGCTACTTTTATTTCTGTTGATTTTTTTTTCTTGGTGTGTGTGGTGGTTGTTTTAAGT
GTGGAGGGGCAAAAGGAGATACCATCCCAGGCTCAGTCCAACCCCTCTCCAAAACGGCTTTTCTGACACTCCAGGT
AGCGAGGGAGTTGGGTCTCCAGGTGTGTGCGAGGAGCAAATGATGACCGCCAAGGCCGTAGACAAAATCCCAGTAA
CTCTCAGTGGTTTTGTGCACCAGCTGTCTGACAACATCTACCCGGTGGAGGACCTCGCCGCCACGTCGGTGACCA
TCTTTCCCAATGCCGAAGTGGGAGGCCCCCTTTGACCAGATGAACGGAGTGGCCGGAGATGGCATGATCAACATTG
ACATGACTGGAGAGAAGAGGTGCTTGGATCTCCCATATCCCAGCAGCTTTGCTCCCGTCTCTGCACCTAGAAACC
AGACCTTCACTTACATGGGCAAGTTCTCCATTGACCCTCAGTACCCTGGTGCCAGCTGCTACCCAGAAGGCATAA
TCAATATTGTGAGTGCAGGCATCTTGCAAGGGGTCACTTCCCCAGCTTCAACCACAGCCTCATCCAGCGTCACCT
CTGCCTCCCCCAACCCACTGGCCACAGGACCCCTGGGTGTGTGCACCATGTCCCAGACCCAGCCTGACCTGGACC
ACCTGTACTCTCCGCCACCGCCTCCTCCTCCTTATTCTGGCTGTGCAGGAGACCTCTACCAGGACCCCTTCTGCGT
TCCTGTCAGCAGCCACCACCTCCACCTCTTCTCTGCGCTACCCACCACCTCCTTCCTATCCATCCCCAAGC
CAGCCACGGACCCAGGTCTCTTCCCAATGATCCCAGACTATCCTGGATTCTTTCCATCTCAGTGCCAGAGAGACC
TACATGGTACAGCTGGCCAGACCGTAAGCCCTTTCCCTGCCCACTGGACACCCTGCGGGTGCCCCCTCCACTCA
CTCCACTCTCTACAATCCGTAACCTTTACCCTGGGGGGCCCCAGTGCTGGGGTGACCGGACCAGGGGGCCAGTGGAG
GCAGCGAGGGACCCCGGCTGCCTGGTAGCAGCTCAGCAGCAGCAGCAGCCGCCGCCGCCGCCCTATAACCCAC
ACCACCTGCCACTGCGGCCCATCTGAGGCCTCGCAAGTACCCCAACAGACCCAGCAAGACGCCGGTGCACGAGA
GGCCCTACCCGTGCCAGCAGAAGGCTGCGACCGGCGGTTCTCCCGCTCTGACGAGCTGACACGGCACATCCGAA
TCCACACTGGGCATAAGCCCTTCCAGTGTGCGATCTGCATGCGCAACTTCAGCCGCAGTGACCACCTCACCACCC
ATATCCGCACCCACACCGGTGAGAAGCCCTTCGCTGTGACTACTGTGGCCGAAAGTTTGCCCGGAGTGATGAGA
GGAAGCGCCACACCAAGATCCACCTGAGACAGAAAAGAGCGGAAAAGCAGTGCCCCCTCTGCATCGGTGCCAGCCC
CCTCTACAGCCTCCTGCTCTGGGGGCGTGACGCTGGGGGTACCCTGTGCAGCAGTAACAGCAGCAGTCTTGGCG
GAGGGCCGCTCGCCCCCTTGCTCCTCTCGGACCCGGACACCTTGAGATGAGACTCAGGCTGATACACCAGCTCCCA
AAGGTCCCGGAGGCCCTTTGTCCACTGGAGCTGCACAACAAACACTACCACCCCTTTCCTGTCCCTCTCTCCCTTT
GTTGGGCAAAGGGCTTTGGTGGAGCTAGCACTGCCCCCTTTCCACCTAGAAGCAGGTTCTTCCTAAACTTAGCC
CATTCTAGTCTCTCTTAGGTGAGTTGACTATCAACCAAGGCAAAGGGGAGGCTCAGAAGGAGGTGGTGTGGGGA
TCCCCCTGGCCAAGAGGGCTGAGGTCTGACCCTGCTTTAAAGGGTTGTTTGACTAGGTTTTGCTACCCCACTTCCC
CTTATTTTGACCCATCACAGGTTTTTGACCCTGGATGTCAGAGTTGATCTAAGACGTTTTCTACAATAGGTTGGG
AGATGCTGATCCCTTCAAGTGGGGACAGCAAAAAGACAAGCAAACTGATGTGCACTTTATGGCTTGGGACTGAT
TTGGGGGACATTGTACAGTGAGTGAAGTATAGCCTTTATGCCACACTCTGTGGCCCTAAAATGGTGAATCAGAGC
ATATCTAGTTGTCTCAACCCCTGAAGCAATATGTATTATATACTCAGAGAACAGAAGTGCAATGTGATGGGAGGA
ACGTAGCAATATCTGCTCCTTTTCGAGTTGTTTGAGAAATGTAGGCTATTTTTTTCAGTGTATATCCACTCAGATT
TTGTGTATTTTTGATGTACCCACACTGTTCTCTAAATCTGAATCTTTGGGAAAAAATGTAAAGCATTTATGATC
TCAGAGGTTAACTTATTTAAGGGGGATGTACATATTCTCTGAAACTAGGATGCATGCAATTGTGTTGGAAGTGTC
CTTGGTCGCTTGTGTGATGTAGACAAATGTTACAAGGCTGCATGTAAATGGGTTGCCTTATTATGGAGAAAAAA
ATCACTCCCTGAGTTTAGTATGGCTGTATATTTATGCCTATTAATATTTGGAATTTTTTTTAGAAAGTATATTTT
TGTATGCTTTGTTTTGTGACTTAAAAGTGTTACCTTTGTAGTCAAATTTAGATAAGAATGTACATAATGTTACC
GGAGCTGATTGTTTGGTCATTAGCTCTTAATAGTTGTGAAAAAATAAATCTATTCTAACGCAAAACCACTAACT
GAAGTTCAGATATAATGGATGGTTTGTGACTATAGTGTAATAAATACTTTTCAACAAT

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FIGURE 1019

MMTAKAVDKIPVTLSGFVHQLSDNIYPVEDLAATSVTIFPNAELGGPFDQMNGVAGDGMINIDMTGEKRSLDLPY
PSSFAPVSAPRNQTFITYMGKFSIDPQYPGASCYPEGIINIVSAGILQGVTSASTTASSSVTSASPNPLATGPLG
VCTMSQTQPDLDHLYSPPPPPPPYSGCAGDLYQDPSAFLSAATTSTSSSLAYPPPPSYPSPKPATDPGLFPMIPD
YPGFFPSQCQRDLHGTA GPD RKPFPCPLD TLRVPPPLTPLSTIRNFTLGGPSAGVTGPGASGGSEGPRLPGSSSA
AAAAAAAAAYNPHHLPLRPILRPRKYPNRP SKTPVHERPYPCPAEGCDRRFSRDELTRHIRIHTGHKPFQCRIC
MRNFSRSDHLTTHIRHTGKPFACDYCGRKFARSDERKRHTKIHLRQKERKSSAPSASVPAPSTASCSSGGVQPG
GTLCSNSSLGGGLAPCSSRTRTP

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FIGURE 1020

CTACTCGCCGAGTTCCCTGTACGTGCTGTGTCCGATGACCTGCAGCGTGGAAGACAAGAGGTTTGAGCATGCCAG
AAGGAAACACCCTGATATCAGTGGATTATGAAATTTTTGGGAAGGTGCAAGGGGTGTTTTTCCGTAAGCATACTC
AGGCTGAGGGTAAAAAGCTGGGATTGGTAGGCTGGGTCCAGAACACTGACCGGGGCACAGTGCAAGGACAATTGC
AAGGTCCCATCTCCAAGGTGCGTCATATGCAGGAATGGCTTGAAACAAGAGGAAGTCCTAAATCACACATCGACA
AAGCAAACCTCAACAATGAAAAAGTCATCTTGAAGTTGGATTACTCAGACTTCCAAATTGTAAAATAATGGCCTG
AATTTAAGTTTTCTAAGATAAACTCAGTGGTTTGGTTTTTATTATTATAATAGAGATAGAACTATTGTGTGTTAATA
TTAGCATTAGTCAATAAGTTATTTTAATGTCAGATTTTGAATGTTATTATATATTACCTGTATGATGGAAGGAT
TACCACTGTACACAAATCTAATCAATAAAAACGTTAGAACCTTCTGCTTAGAGTACTT

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FIGURE 1021

MAEGNTLISVDYEIFGKVQGVFFRKHTQAEGKKLGLVGWVQNTDRGTVQGQLQGPISKVRHMQEWLETRGSPKSH
IDKANFNNEKVILKLDYSDFQIVK

[illegible]

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FIGURE 1023

MALRNVPRSEVLGWDPDSLADYFKKLNYKDCEKAVKKYHIDGARFLNLTENDIQKFPKLRVPILSKLSQEINKN
EERRSIFTRKPQVPRFPEETESHEEDNNGGWSSFEEDDYESPNDQDGEDDGDYESPNEEEEAPVEDDADYEPPPS
NDEEALQNSILPAKPPNSNSMYIDRPPSGKTFQQPPVPPQRPMAALPPPPAGRNHSPPLPPPQTNHEEPSRSRNH
KTAKLPAPSIDRSTKPPLDRSLAPFDREPFTLGKKPPFSDKPSIPAGRSLGEHLPKIQKPPLPPTTERHERSSPL
PGKKPPVPKHGWPDRRENDEDDVHQRLPQPALLPMSSNTFPSRSTKPSPMNPLPSSHMPGAFSESNSSTFPQSA
SLPPYFSQGPSNRPPIRAEGRNFLPLPNKPRPPSPAEENSLEEWYVSYITRPEAEAALRKINQDGTFLVRDS
SKKTTNPNPYVLMVLYKDKVYNIQIRYQKESQVYLLGTGLRGKEDFLSVSDIIDYFRKMPLLLIDGKNRGSRYQCT
LTHAAGYP

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FIGURE 1024

GAAGAGACCATATTTGTTTCGCAGAGGAAGCCGTTGCTTTCTGGGATCTGGCTACGGCAGAAAAGACATCGGCTCC
AACAGGGGTGTTCCACAGGGTAGCTGGGAGTTGGAAGAGCCAAGAACGCCTCCGAGCTCTGGATTTGAGCTTCTC
TGCCCATGGGTGAAGCGCCCATGCTCAGCTTGTGAGCTTCTTCCCGGAGAGCAGCCATGGCACTGAGGAATGTG
CCCTTTCGCTCAGAGGTCCTGGGCTGGGACCCCCGACAGCCTTGCTGACTATTTCAAGAAGCTCAACTATAAGGAC
TGTGAGAAGGCAGTGAAGAAGTACCACATCGATGGGGCTCGCTTCTTGAACCTGACAGAAAATGACATCCAGAAG
TTCCCAAGCTCCGGGTGCCGATTCTCAGTAAGTTAAGTCAGGAAATCAACAAGAACGAAGAGAGGAGGAGCATC
TTCACACGCAAACCCCAAGTCCCGCGGTTTCTGAAGAGACAGAAAGCCACGAAGAGGACAATGGGGGTTGGTCG
TCCTTTGAAGAAGACGATTATGAAAGTCCCAATGATGACCAGGATGGGGAGGATGATGGAGACTATGAGTCCCCC
AATGAGGAGGAAGAGGCACCCGTGGAAGATGACGCGGATTATGAGCCGCCACCCTCCAATGACGAGGAAGCTCTG
CAGAACTCCATCCTGCCTGCCAAGCCTTTCCCCAACTCCAATCATGTACATCGACCGGCCCCCTCTGGGAAA
ACCCCCCAGCAGCCTCCTGTGCCCCCCCCAGAGACCGATGGCCGCCCTCCCGCCCCACCAGCCGGCCGGAATCAC
TCGCCACTGCCCCACCCCAGACCAACCACGAAGAACCCAGCAGAAGCAGAAACCACAAAACGGCAAAGCTCCCT
GCTCCTTCAATAGACAGAAGCACGAAACCTCCCCTAGATCGTTTATTAGCTCCGTTTGATAGAGAACCCTTCACA
CTAGGAAAAGAAACCACCATTTTCTGACAAGCCCTCGATTCCAGCGGGAAGGTCACCTCGGGGAGCATTTACCCAAG
ATTCAAAAAGCCTCCTTTACCACCGACCACGGAAGACATGAAAGGAGCAGCCCCCTGCCAGGGAAGAAGCCACCT
GTGCCAAAGCATGGATGGGGACCAGACAGAAGAGAGAATGATGAAGATGATGTGCATCAGAGACCTTTGCCCCAG
CCAGCACTACTTCCTATGAGCTCCAACACTTTCCCTTCAAGATCTACTAAGCCAAGTCCCATGAACCTCTCCCA
TCCTCTCACATGCCTGGAGCATTTCTCAGAAAGTAACAGCAGTTTTCCACAGAGTGCCTCCCTGCCACCATACTTC
TCTCAAGGCCCTAGCAACAGACCACCTATCAGAGCCGAAGGCAGAACTTCCCCTTGCCACTTCCAAAACAAACCT
CGGCCCCCATCCCCCGCGGAGGAAGAGAATTCATTAAATGAAGAGTGGTACGTTTCTTATATTACCCGACCAGAG
GCAGAAGCTGCTCTTAGAAAGATAAACCAGGATGGCACATTTCTGGTCAGAGACAGCTCTAAAAAACAACAACC
AATCCATATGTCCTCATGGTGTGTGTACAAAGATAAAAGTTTACAACATCCAGATCCGTTATCAGAAGGAAAAGTCAA
GTTTACTTGTGGGAACTGGACTCCGAGGGAAAAGAGGACTTTCTGTCTGTGTGATATTATTGACTACTTCAGG
AAAATGCCACTTCTGCTCATTGATGGGAAAAACCGAGGTTCCAGATACCAGTGCACATTAACGCATGCTGCAGGG
TACCCATATGCAAGTTATAGCCGAGCAAATGAACCGTCTCTGCTCTGTTGCCAACACGAGATCAATCAGCCTT
GGTCAATGGACAAACACTTAGGACTGAACTGAACCCCTCCCCATGAACACAAGGGTTTTATCCTTTCTTTAAAA
ACAGTGTGTGAAATGAAGACTGTCAACTATCCCC

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FIGURE 1025

MALRNVPFRSEVLGWDPDSLADYFKKLNYKDCEKAVKKYHIDGARFLNLTENDIQKFPKLRVPILSKLSQEINKN
EERRSIFTRKPQVPRFPEETESHEEDNGGWSSFEEDDYESPNDQDGEDDGDYESPNEEEEAPVEDDADYEPPPS
NDEEALQNSILPAKPFPPNSNSMYIDRPPSGKTPQQPPVPPQRPMAALPPPPAGRNHSPLPPPQTNHEEPSRSRNH
KTAKLPAPSIDRSTKPPLDRSLAPFDREPFTLGKKPPFSDKPSIPAGRSLGEHLPKIQKPPLPPTTERHERSSPL
PGKKPPVPKHGWGPDREDEDVHQRLPQPALLPMSSNTFSPSRSTKPSPMNPLPSSHMPGAFSESNSFFPQSA
SLPPYFSQGPPSNRPPIRAEGRNFPPLPLPNKPRPPSPAEEENSLNEEWYVSYITRPEAEAALRKINQDGTFLVRDS
SKKTTTNPYVLMVLYKDKVYNIQIRYQKESQVYLLGTGLRGKEDFLSVSDIIDYFRKMPLLLIDGKNRGSRYQCT
LTHAAGYP

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FIGURE 1026A

GGCACGAGCAGAAGCAACAATAATTGTGAAAAATACTTCAGCAGTTATGGACTCATCTGTCATTCAAAGGAAAAA
AGTAGCTGTCATTGGTGGTGGCTTGGTTGGCTCATTACAAGCATGCTTTCTTGCAAAGAGGAATTTCCAGATTGA
TGTATATGAAGCTAGGGAAGATACTCGAGTGGCTACCTTCACACGTGGAAGAAGCATTAACTTAGCCCTTTCTCA
TAGAGGACGACAAGCCTTGAAAGCTGTTGGCCTGGAAGATCAGATTGTATCCCAAGGTATTCCCATGAGAGCAAG
AATGATCCACTCTCTTTTCAGGAAAAAAGTCTGCAATTCCCTATGGGACAAAGTCTCAGTATATTCTTTCTGTAAG
CAGAGAAAAATCTAAACAAGGATCTATTGACTGCTGCTGAGAAATACCCCAATGTGAAAATGCACTTTAACCACAG
GCTGTTGAAATGTAATCCAGAGGAAGGAATGATCAGAGTGGTGGATCTGACAAAGTTCCCAAAGATGTCACCTTG
TGACCTCATTGTAGGATGTGATGGAGCCTATTCAACTGTCAGATCTCACCTGATGAAGAAACCTCGCTTTGATTA
CAGTCAGCAGTACATTCCCTCATGGGTACATGGAGTTGACTATTCCACCTAAGAACGGAGATTATGCCATGGAACC
TAATTATCTGCATATTTGGCCTAGAAATACCTTTATGATGATTGCACTTCCTAACATGAACAAATCATTACATG
TACTTTGTTTCATGCCCTTTGAAGAGTTTGAAAACTTCTAACCCAGTAATGATGTGGTAGATTTCTTCCAGAAATA
CTTTCCGGATGCCATCCCTCTAATTGGAGAGAACTCCTAGTGCAAGATTTCTTCTGTTGCCTGCCAGCCCAT
GATATCTGTAAAGTGCTCTTCATTTCACTTTAAATCTCACTGTGTACTGCTGGGAGATGCAGCTCATGCTATAGT
GCCGTTTTTTGGGCAAGGAATGAATGCGGGCTTTGAAGACTGCTTGGTATTTGATGAGTTAATGGATAAAATTCAG
TAACGACCTTAGTTTGTGTCTTCTGTGTTCTCAAGATTGAGAATCCAGATGATCAGCGATTTTCAGACCTATC
CATGTACAATTACATAGAGATGCGAGCACATGTCAACTCAAGCTGGTTCATTTTTTCAGAAGAACATGGAGAGATT
TCTTCATGCGATTATGCCATCGACCTTTATCCCTCTCTATACAATGGTCACCTTTTTCCAGAATAAGATACCATGA
GGCTGTGCAGCGTTGGCATTGGCAAAAAAAGGTGATAAACAAAGGACTCTTTTTCTTGGGATCACTGATAGCCAT
CAGCAGTACCTACCTACTTATACACTACATGTCAACACGATCTTTCTCTGCTTGAGAAGACCATGGAACCTGGAT
AGCTCACTTCCGGAATACAACATGTTTTCCCGCAAAGGCCGTGGACTCCCTAGAACAAATTTCCAATCTCATTAG
CAGGTGATAGAAAGGTTTTGTGGTAGCAAATGCATGATTTCTCTGTGACCAAATTAAGCATGAAAAAAATGTTT
CCATTGCCATATTTGATTCACTAGTGGAAGATAGTGTTCTGCTTATAATTAACTGAATGTAGAGTATCTCTGTA
TGTTAATTGCAATTACTGGTTGGGGGGTGCATTTTTAAAGATGAAACATGCAGCTTCCCTACATTACACACACTC
AGGTTGAGTCATTCTAACTATAAAAGTGCAATGACTAAGATCCCTCACTTCTCTGAAAGTAAGGCCCTAGATGCC
TCAGGGAAGACAGTAATCATGCCTTTTTCTTTAAAGACACAATAGGACTCGCAACAGCATTGACTCAACACCTAG
GACTAAAAATCACAACTTAAGTAGCATGTTAACTGCACCTTTTCATTACGTGAATGGAACCTTACCTAACCACAGGG
CTCAGACTTACTAGATAAAACCAGAAATGGAATAAGGAATTCAGGGGAGTTCCAGAGACTTACAAAATGAACTC
ATTTTATTTTCCACCTTCAAATATAAGTATTATCATCTATCTGTTTATCGTCTATCTATCTATCTATCTATCTAT
CTATCTATCATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTATCTAT
ATTTAGAGATCAGGTCTCACTCTGTTGACCAGGCTGGAGTGCAGTGGTGAGATCTGGGTTCACTGCAACCTCTGC
CTCCTGGGCTCAAGCAATCCTCCCACTTCAGCCTCCCAAATAGCTGGGGCTACCATGGTATTTTTTCAGTAGAGAC
CGGGTCTTGCCATGCTGCCCAGGCCAGTCTCAAACCTCTGGCCTCATGTGATCTGCCACCTCAGCCTCCCAAAG
TACAGGGATTAGAGTTGTGAGCCACCGCTGCCAGCCAGAGTTACCTCTAAAGATAAGAAAAAGGCTATTAATA
TCATACTAAGTGAAGGACAGGAAAGGGTTTTATTATATAAATTAAATGTCTACATGTGCCAGAATGGAAAGGAAAC
AAGGGGAGACAACCTTTATAGAAATACAAAGCCATTACTTTATTCAATTTTCAGACCTCAGAAGCAATTTACTAA
TTTATTCTTCGACTACATACTGCAGCAGAACCAGCAATACACTTGATTTTTTAAAGCACATTTAGTGAAATGTTT
TCTTTGGTTTCATCCTTCTTTAACAGGCTGCTGAGTCACTCAGAAATCCTTCAAACATGATTAATTATGAAGATGA
AACACTAGAGTCATATAAGAAATAAAAAATTGGGCAATAAAAAATAAAATGATTCACTGTTTCTTTTCTATATTGTCA
ATGAAAACCTTGAGTTCTAATAATCCATGTTTCAGTTTGTAGGGAAAGAAAAATAATTTTTCTTCTACCCACTT
TAGGTTCTTGGCTGGGGCCCCCTATAACAAAAGACAGATTGACAAGAGAAAAACAAACATAAATTTATTAGCGGG
TATATGTAATATATATGTGGGAAATACAGGGGAATGAGCAAATCTCAAAGAGCTGGCGTCTTAGAACTCCCTGGC
TTATATAGCATCGACAAAAGAACAGTAAATTTTTAGAGAAACAACAAAAACAAAGAAAAAGAGCTTTGAGTCTGTAG
GGGCAGCAATTTGGGGGAAGCAAATATATGGGAGTTTGCCTTGTAGATTCCCTCTGGTGGTGGTCTCCAGGCTGAC
AAGGATTCAAAGTTGTCTCTGAACTCCTCTTTGTCTACTGCACATATAAAACGTCTTTTGTTCACACAAGAG
GATTTCTTTTTTCATTCTAGAATTATCTCCTTGATAACTTGATCAGATATAGGACATGACACTGAATAGAGTCCAA
CAGTACAAAAAAATTCAGTATGTTCTAGCTACTTCACACATGTGTACGCGACAGTTATTTTTTACAGTAAGGTAT
TTTCAGAAAAATGCATTACGTGTTTTGGAAAATAGAGTAATTTAAAAAATATATTTGAAATGAAAATCTCCAAC
ACATTAGAAGATGATGATGTTAGATGCCCATCGTGTGCCACAAGTGGTTTTTTTCATTATGTAAAGCACCCGTTGA

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FIGURE 1026B

ATTAAAAGAATTTGTTTTTGTTC AACCTCTTCCTGAGGCCCAAGAGCATATGGGCAATTCGGATTTCTTGCTGGA
CCACAAGGTTCTGTTGATATTACATAGAAAACGGGTATTCCAGACACTTCTTATGATGAAAGTCCAAAAGTGGCAT
CCAATTTAAGGCCCCATCTTTTCGTTGCCATTCTTCATTCCCTACAAAGGACGAACTTGGATTACATCAACTTTGGA
CCCATTTGGTTTTGTGCTGTCGTCAACTGACAGTGATTCCACCTGGTGATGATAAAAATGATGGAAGAAGAGTT
GAAAGTCACTTTTTTCTTTGGCCTGTCCCCATCTTTCTGTGACATCACAATGGGTCTGATCTGCATTTCACTTCC
AGCTGCTGGTAGGTCTTTAGCAGGCCTCTGGCACCTCAGCAGTCGGAGGCACAGAAGCTGCAAAAGGGATCTTCG
AAACTGGGCAGAGAAAAATAAAGTGGAATATTAAGTAAAAGTTGGGCACTAATCTGGATTAACATTCGAGGAAA
TCAGTTGAGCTGATTTAAGTTGTTTTTTGTTTGTAGCAGGTGTGGATGTGGGGTTATGTGGTCATGCTCAGATC
TACCTAAATCACCCAGAGCTTTATGTCTTTTATTCATTCTAAATCTTATTAACCGGAATATGTAGGACCATTTT
AATACCTTGTAATCCTCCAAGCTTCAATCTGCACACACTTTCTATGAGGGCAGGTACAACCTATTAAGAGATTTTG
AACATTAAGTTAGTCCACAAATATTCAGTGGGCATCTACTAGGTGACAGCCACTGTGCTATAATTAGAGACTTTT
TACTATAAGCATCAAAAACAGATAAGGCTCTTCCTGGCAGAGTTTACAGCCTGGTGTACTTGCTAATGTCTCTTT
AATTAGGTGAAGAATTTTTTTTTTCTATCGAAATTACTAATCAGTTGGGGAAAAAATACTATAGCAGACAGCAC
TAATGTCATCAACAAACATTGTTCTTCTCCGTGTCCTGGGTACAACATCGAATAATATTTCTTGGCCTCCTTTCC
GCTTCTCCTCTCTGCTGTTCTCTCTACAAGAACCTGGGAGGCCAACGCCTAAAGATCATAATATCACAATGGAA
GGAACCTAGATTCCTAAATGACTGCATAGGACAGATCCCATCTCCTCCACCCAATACATTATTAGACTGAACTGT
GACCTGAAATGAGCAATAAACTCTGTATTAATTCAGTGAATGTTGGGGTTGCTTGTTATAGTAGTCGGTCCATC
ATGACCAGTAAAACATAAATCAAAAGTTAATGTAATTGTTATCCCATTTATTTAGAGCGAAATAAATGTTGAATAT
ATGGACTTTCTCAGATTAGGAAATACCAATTAAAAATATAATAAATAGCT

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FIGURE 1027

MDSSVIQRKKVAVIGGGLVGSLQACFLAKRNFQIDVYEAREDTRVATFTRGRSINLALSHRGRQALKAVGLEDQI
VSQGIPMRARMIHSLSGKKS AIPYGT KSQYILSVSRENLNKDLLTAAEKYPNVKMHFNHRL LKCNPEEGMITVLG
SDKVPKDVITCDLIVGCDGAYSTVRSHLMKKPRFDYSQQYIPHGYMELTIPPKNGDYAMEPNYLHIWPRNTFMMIA
LPNMNKSFTCTLFMPFEEFEKLLTSNDVVDFQKYFPDAIPLIGEKLLVQDFFLLPAQPMISVKCSSFHFKSHCV
LLGDAAHAIVPFFGQGMNAGFEDCLVFDELMDKFSNDLSLCLPVFSRLRIPDDHAISDLSMYNYIEMRAHVNSSW
FIFQKNMERFLHAIMPSTFIPLYTMVTFSRIRYHEAVQRWWQKKVINKGLFFLGSLIAISSTYLLIHYMSPRSF
LCLRRPWNWIAHFRNTTCFPAKAVDSLEQISNLISR

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FIGURE 1028

GGGGGGTCTGCGTCTTCCCGAGCCAGTGTGCTGAGCTCTCCGCGTCGCCTCTGTGCGCCGCGCCTGGCCTACCGC
GGCACTCCCGGGCTGCACGCTCTGCTTGGCCTCGCCATGCCGGTGGACCTCAGCAAGTGGTCCGGGCCCTTGAGCC
TGCAAGAAAGTGGACGAGCAGCCGAGCACCCGCTGCATGTCACCTACGCCGGGGCGGCGGTGGACGAGCTGGGCA
AAGTGTGACGCCCACCCAGGTTAAGAATAGACCCACCAGCATTTTCGTGGGATGGTCTTGATTACAGGGAAGCTCT
ACACCTTGGTCCTGACAGACCCGGATGCTCCAGCAGGAAGGATCCCAAATACAGAGAATGGCATCATTTTCCTGG
TGGTCAACATGAAGGGCAATGACATCAGCAGTGGCACAGTCCTCTCCGATTATGTGGGCTCGGGGCCTCCCAAGG
GCACAGGCCTCCACCGCTATGTCTGGCTGGTTTACGAGCAGGACAGGCCGCTAAAGTGTGACGAGCCCATCCTCA
GCAACCGATCTGGAGACCACCGTGGCAAATTCAGGTGGCGTCCTTCCGTAAAAAGTATGAGCTCAGGGCCCCGG
TGGCTGGCACGTGTTACCAGGCCGAGTGGGATGACTATGTGCCCAAACGTACGAGCAGCTGTCTGGGAAGTAGG
GGGTTAGCTTGGGGACCTGAACTGTCTTGAGGGCCCCAAGCCATGTTCCCCAGTTCAGTGTTCATGTATAATAG
ATTTCTCCTCTTCCTGCCCCCTTGGCATGGGTGAGACCTGACCAGTCAGATGGTAGTTGAGGGTGACTTTTCCT
GCTGCCTGGCCTTTATAATTTTACTCACTCACTCTGATTTATGTTTTGATCAAATTTGAACTTCATTTTGGGGGG
TATTTTGGTACTGTGATGGGGTCATCAAATTATTAATCTGAAAATAGCAACCCAGAATGTAAAAAAGAAAAAACT
GGGGGGAAAAAGACCAGGTCTACAGTGATAGAGCAAAGCATCAAAGAATCTTTAAGGGAGGTTTAAAAA
AAAAAAGATTGGTTGCCTCTGCCTTTGTGATCCTGAGTCCAGAATGGTACACAATGTGATTTTATGGTGAT
GTCACCTACCTAGACAACCAGAGGCTGGCATTGAGGCTAACCTCCAACACAGTGCATCTCAGATGCCTCAGTAGG
CATCAGTATGTCACCTCTGGTCCCTTTAAAGAGCAATCCTGGAAGAAGCAGGAGGGAGGGTGGCTTTGCTGTTGTT
GGGACATGGCAATCTAGACCGGTAGCAGCGCCTCGCTGACAGCTTGGGAGGAAACCTGAGATCTGTGTTTTTTAA
ATTGATCGTTCTTCATGGGGGTAAAGAAAAGCTGGTCTGGAGTTGCTGAATGTTGCATTAATTGTGCTGTTTGCTT
GTAGTTGAATAAAAACCCG

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FIGURE 1029

MPVDLSKWSGPLSLQEVDEQPQHPLHVTYAGAAVDELGKVLTPQTQVKNRPTSI
SWDGLDSGKLYTLVLTDPDAPS
RKDPKYREWHHFLVVMKGNDISSGTVLSDYVVGSGPPKGTGLHRYVWLVEQDRPLK
CDEPILSNRSGDHRGKFK
VASFRKKYELRAPVAGTCYQAEWDDYVPKLYEQLSGK

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FIGURE 1030

GCAGTTCTGGTCCTCCTAGGAGCGGCCCGCCTGCGCGGCGCGGCCCCGCTGGTTCGGATGCTGGGCGGCAGAGAGGCC
GAGGCGCACGCGCGGCCCTACATGGCGTCGGTGCAGCTGAACGGCGCGCACCTGTGCGCAGGCGTCCTGGTGGCG
GAGCGGTGGGTGCTGAGCGCGGCGCACTGCCTGGAGGACGCGGCCGACGGGAAGGTGCAGGTTCTCCTGGGCGCG
CACTCCCTGTGCGAGCCGGAGCCCTCCAAGCGCCTGTACGACGTGCTCCGCGCAGTGCCCCACCCGGACAGCCAG
CCCGACACCATCGACCACGACCTCCTGCTGCTACAGCTGTCGGAGAAGGCCACACTGGGCCCTGCTGTGCGCCCC
CTGCCCTGGCAGCGCGTGGACCGGACGTGGCACCGGGAACCTCTCTGCGACGTGGCCGGCTGGGGCATAGTCAAC
CACGCGGGCCGCCGCCCGGACAGCCTGCAGCACGTGCTCTTGCCAGTGCTGGACCGCGCCACCTGCAACCGGCGC
ACGCACCACGACGGCGCCATCACCGAGCGCTTGATGTGCGCGGAGAGCAATCGCCGGGACAGCTGCAAGGGTGAC
TCCGGGGGCGCGCTGGTGTGCGGGGGCGTGCTCGAGGGCGTGGTCACCTCGGGCTCGCGCGTTTGCGGCAACCGC
AAGAAGCCCGGGATCTACACCCGCGTGGCGAGCTATGCGGCCCTGGATCGACAGCGTCCTGGCCTAGGGTGCCGGG
GCCTGAAGGTGAGGGTCACCCAAGCAACAAAGTCCCGAGCAATGAAGTCATCCACTCCTGCATCTGGTTGGTCTT
TATTGAGCACCTACTATATGCAGAAGGGGAGGCCGAGGTGGGAGGATCATTGGATCTCAGGAGTTGGAGATCAGC
ATGGGCCACGTAGCGGACTCCATCTCTACAAATAAATAAAAATTAGCTGGGCAATTGGCGGGCATGGAGGTGGG
TGCTTGTAGTTCCAGCTACTCAGGAGGCTGAGGTGGGAGGATGACTTGAACGCAGGAGGCTGAGGCTGCAGTGAG
TTGTGATTGCACCACTGCCCT

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FIGURE 1031

MLGGREAEAHARPYMASVQLNGAHLCAAGVLVAERWVLSAAHCLEDAADGKVQVLLGAHSLSQPEPSKRLYDVLRA
VPHPDSPDPTIDHDLLLLQLSEKATLGPAVRPLPWQRVDRDVAFGTLCDVAGWGIVNHAGRRPDSLQHVLLPVLD
RATCNRRTHHDGAITERLMCAESNRRDSCKGDSGGPLVCGGVLEGVVTSGSRVCGNRKKPGIYTRVASAAWIDS
VLA

FIGURE 1032

CACAAGAGCGGTAGCC**ATG**TCGCGGAGGCGGCGGCTGCAGCGGGTGGGACTGGCTTGGGCGCGGGCGCGAGCTACGGG
TCTGCAGCGGACCGGGACCGGGACCGGACCGGACCGCGCGGGCGGAGGCTGCGGGTTCTCTCTGGCCATCTG
CTGGGCGGCCCCGGGAGGCTCTGAGTACCAATGAGTGCAAAGCGCGGAGAGCCGCGTCGCGCGGCCACGGCAGCG
CCCACGGCCACTCCCGCCGCGCAGGAGTCGGGCACCATCCCCAAAGAAGCGGCAAGAAGTTATGAAATGGAATGGA
TGGGGATATAATGATTCTAAATTCATCTTCAATAAGAAGGGCCAAATTGAATTGACTGGGAAAAGGTACCCTCTT
AGTGGCATGGGTTTACCAACATTTAAAGAATGGATCCAAAATACCCTTGGAGTAAATGTGGAGCATAAAACTACC
TCTAAAGCATCCTTAAATCCTAGTGATACACCTCCTTCTGTTGTAAATGAAGATTTTCTTCATGACCTTAAAGAA
ACTAATATTTTCATATTCACAAGAGGCAGATGATCGAGTATTTAGAGCTCATGGTCATTGTCTTCATGAGATATTT
TTGCTCAGGGAAGGAATGTTTGAGCGAATTCTGATATAGTTTTATGGCCAACATGCCATGATGATGTAGTTAAG
ATTGTGAATCTAGCTTGCAAATATAATCTTTGTATCATACCAATTGGTGGAGGAACAAGTGTTTCATATGGCCTG
ATGTGTCCTGCAGATGAGACAAGAACAATTATTTCTTTGGACACTTCACAAATGAATCGAATTCTCTGGGTTGAT
GAGAACAATTTGACAGCTCATGTGGAGGCTGGCATAACAGGACAAGAGTTGGAAAGACAGCTTAAAGAAAGTGGT
TATTGTACAGGTCATGAACCAGATTCCCTGGAGTTCAGTACTGTAGGAGGATGGGTATCTACTCGCGCATCAGGC
ATGAAGAAGAATATCTATGGCAATATCGAGGACCTGGTGGTTTCATATAAAAAATGGTAACACCTAGAGGTATAATA
GAAAAAAGCTGTCAAGGACCTCGTATGTCAACAGGCCCTGATATCCATCACTTCATCATGGGATCTGAAGGAACT
CTTGGTGTATAACAGAAGCTACAATAAAAAATCAGACCAGTCCCTGAATACCAAAGATATGGCTCAGTAGCTTTT
CCTAATTTTGAACAAGGAGTAGCCTGTTTAAAGAGAAATTGCAAAACAGAGATGTGCTCCGGCATCTATTTCGCTC
ATGGACAACAAGCAGTTTCAGTTTGGTCATGCTCTTAAACCTCAGGTTTCTCTATCTTTACATCATTTTTTGGAC
GGATTAAAAAAGTTTTATATTACAAAGTTTAAAGGATTTGACCCAAATCAGCTAAGTGTAGCCACATTACTGTTT
GAGGGGGATCGTGAGAAGGTTCTTCAACATGAAAAACAAGTGTATGATATTGCTGCAAAATTTGGTGGGTTGGCA
GCTGGAGAAGATAATGGACAGAGAGGTTATTTGCTGACCTATGTTATTGCATACATTGAGACTTGGCTTTTGGAA
TACTATGTATTAGGAGAATCTTTTGAGACTTCTGCTCCTTGGGACAGGGTGGTAGATCTCTGTAGAAATGTAAAA
GAAAGAATAACAAGGGAATGCAAAGAGAAGGGTGTTTCAGTTTGGCTCCTTTTTCTACATGCAGGGTGACGCAGACT
TACGATGCAGGTGCTTGTATCTACTTCTATTTTTGCCTTTAACTACAGGGGAATTAGTGACCCACTGACCGTATTT
GAACAAACTGAGGCAGCTGCTAGAGAAGAAATCCTTGCTAATGGAGGGAGCCTGTCACATCACCATGGAGTGGGC
AAGTTACGGAAGCAATGGCTAAAGGAAAGTATCTCTGATGTCGGCTTTGGGATGCTGAAGTCTGTCAAGGAATAT
GTGGACCCCAATAACATCTTTGGAACAGAAACCTTTTAT**TAAA**ATCCATTAGTACCATTACAAAAAATGTCAATT
TTTTTTTTTAAGTTTTCAACTGTGGTTATACTAGTAATCAAATATATCAT

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FIGURE 1033

MAEAAAAAGGTGLGAGASYGSAADRRDPDPDRAGRRLRVLSGHLLGRPREALSTNECKARRAASAATAAPTATP
AAQESGTIPKKRQEVMMKWNGWGYNSKFI FNKKQIELTGKRYPLSGMGLPTFKEWIQNTLGVNVEHKTTSKASL
NPSDTPPSVVNEDFLHDLKETNISYSQEADDRVFRAHGHCLHEIFLLREGMFERIPDIVLWPTCHDDVVKIVNLA
CKYNLCIIPIGGGTSVSYGLMCPADETRTIISLDTSQMNRLWVDENNLT AHVEAGITGQELERQLKESGYCTGH
EPDSLEFSTVGGWVSTRASGMKKNIYGNIEDLVVHIKMTVPRGIIEKSCQGPRMSTGPD IHHFIMGSEGLGVIT
EATIKIRPVPEYQKYGSVAFPNFEQGVACLREIAKQRCAPASIRLMDNKQFQFGHALKPQVSSIFT SFLDGLKKF
YITKFKGFDPNQLSVATLLFEGDREKVLQHEKQVYDIAAKFGGLAAGEDNGQRGYLLTYVIAYIRDLALEYYVLG
ESFETSAPWDRVVDLCRNVKERITRECKEKG VQFAPFSTCRVTQTYDAGACIYFYFAFN YRGISDPLTVFEQTEA
AAREEILANGGSLSHHHGVGKLRKQWLKESISDVGF GMLKSVKEYVDPNNIFGNRNLL

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FIGURE 1034

GCCACGTGCTGCTGGGTCTCAGTCCTCCACTTCCCGTGTCTCTGGAAGTTGTCAGGAGCAATGTTGCGCTTGTA
CGTGTGGTAATGGGAGTTTTCTGCCCTTACCCTTCAGCCTGCGGCACACACAGGGGCTGCCAGAAGCTGCCGGTT
TCGTGGGAGGCATTACAAGCGGGAGTTCAGGCTGGAAGGGGAGCCTGTAGCCCTGAGGTGCCCCAGGTGCCCTA
CTGGTTGTGGGCCTCTGTCAGCCCCGCATCAACCTGACATGGCATAAAAAATGACTCTGCTAGGACGGTCCCAGG
AGAAGAAGAGACACGGATGTGGGCCCAGGACGGTGCTCTGTGGCTTCTGCCAGCCTTGCCAGGAGGACTCTGGCAC
CTACGTCTGCACTACTAGAAATGCTTCTTACTGTGACAAAATGTCCATTGAGCTCAGAGTTTTTGAATAACAGA
TGCTTTCTGCCGTTTCATCTCATAACCGCAAATTTTAACCTTGTCAACCTCTGGGGTATTAGTATGCCCTGACCT
GAGTGAATTCACCCGTGACAAAACCTGACGTGAAGATTCAATGGTACAAGGATTCTCTTCTTTGGATAAAGACAA
TGAGAAATTTCTAAGTGTGAGGGGGACCACTCACTTACTCGTACACGATGTGGCCCTGGAAGATGCTGGCTATTA
CCGCTGTGTCCTGACATTTGCCCATGAAGGCCAGCAATACAACATCACTAGGAGTATTGAGCTACGCATCAAGAA
AAAAAAGAAGAGACCATTCTGTGATCATTTCCCCCTCAAGACCATATCAGCTTCTCTGGGGTCAAGACTGAC
AATCCCGTGTAAGGTGTTTTCTGGGAACCGGCACACCCTTAACCACCATGCTGTGGTGGACGGCCAATGACACCCA
CATAGAGAGCGCCTACCCGGGAGGCCGCGTGACCGAGGGGCCACGCCAGGAATATTCAGAAAATAATGAGAACTA
CATTGAAGTGCCATTGATTTTTGATCCTGTGACACAAGAGAGGATTTGCACATGGATTTTAAATGTGTTGTCCATAA
TACCCTGAGTTTTTCAGACACTACGCACCACAGTCAAGGAAGCCTCCTCCACGTTCTCCTGGGGCATTGTGCTGGC
CCCCTTTTCACTGGCCTTCTTGGTTTTTGGGGGAATATGGATGCACAGACGGTGCAAACACAGAACTGGAAAAGC
AGATGGTCTGACTGTGCTATGGCCTCATCATCAAGACTTTCAATCCTATCCCAAGTGAATATAATGGAATGAAAT
AATTCAAACAC

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FIGURE 1035

MLRLYVLVMGVSAFTLQPAAHGAARSCRFRGRHYKREFRLEGEPPVALRCPQVPYWLWASVSPRINLTWHKNSA
RTVPGEETRMWAQDQALWLLPALQEDSGTYVCTTRNASYCDKMSIELRVFENTDAFLPFISYPQILTTLSTSGVL
VCPDLSEFTRDKTDVKIQWYKDSLDDKDNEKFLSVRGTTLLVHDVALEDAGYYRCVLTFAHEGQQYNITRSIE
LRIKKKKEETIPVVISPLKTISASLGSRLTIPCKVFLGTGTPLTTLWWTANDTHIESAYPGGRVTEGPRQEYSE
NNENYIEVPLIFDPVTREDLHMDFKCVVHNTLSFQTLRTTVKEASSTFSWGIVLAPLSLAFVLGGIWMHRRCKH
RTGKADGLTVLWPHHQDFQSYPK

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FIGURE 1036

ATTCAGAGGCTGCTGCCTGCTTAGGAGGTTGTAGAAAAGCTCTGTAGGTTCTCTCTGTGTGTCTTACAGGAGTCTT
CAGGCCAGCTCCCTGTCTGG**ATGG**CTTTTATGAAAAAATATCTCCTCCCCATTCTGGGGCTCTTCATGGCCTACTA
CTACTATTCTGCAAACGAGGAATTCAGACCAGAGATGCTCCAAGGAAAGAAAGTGATTGTACAGGGGCCAGCAA
AGGGATCGGAAGAGAGATGGCTTATCATCTGGCGAAGATGGGAGCCCATGTGGTGGTGACAGCGAGGTCAAAAGA
AACTCTACAGAAGGTGGTATCCCACTGCCTGGAGCTTGGAGCAGCCTCAGCACACTACATTGCTGGCACCATGGA
AGACATGACCTTCGCAGAGCAATTTGTTGCCCAAGCAGGAAAGCTCATGGGAGGACTAGACATGCTCATTCTCAA
CCACATCACCAACACTTCTTTGAATCTTTTTTCATGATGATATTACCATGTGCGCAAAGCATGGAAGTCAACTT
CCTCAGTTACGTGGTCTCTGACTGTAGCTGCCTTGCCCATGCTGAAGCAGAGCAATGGAAGCATTGTTGTCGTCTC
CTCTCTGGCTGGGAAAGTGGCTTATCCAATGGTTGCTGCCTATTCTGCAAGCAAGTTTGCTTTGGATGGGTTCTT
CTCCTCCATCAGAAAGGAATATTCAGTGTCCAGGGTCAATGTATCAATCACTCTCTGTGTTCTTGGCCTCATAGA
CACAGAAACAGCCATGAAGGCAGTTTCTGGGATAGTCCATATGCAAGCAGCTCCAAAGGAGGAATGTGCCCTGGA
GATCATCAAAGGGGGAGCTCTGCGCCAAGAAGAAGTGATTATGACAGCTCACTCTGGACCACTCTTCTGATCAG
AAATCCATGCAGGAAGATCCTGGAATTTCTCTACTCAACGAGCTATAATATGGACAGATTTCATAAACAAG**TAGGA**
ACTCCCTGAGGGCTGGGCATGCTGAGGGATTTTGGGACTGTTCTGTCTCATGTTTATCTGAGCTCTTATCTATGA
AGACATCTTCCAGAGTGTCCCCAGAGACATGCAAGTCATGGGTACACCTGACAAATGGAAGGAGTTCCTCTAA
CATTTGCAAAATGGAAATGTAATAATAATGAATGTCATGCACCGCTGCAGCCAGCAGTTGTAAAATTGTTAGTAA
ACATAGGTATAATTACCAGATAGTTATATTAAATTTATATCTTATATATAATAATATGTGATGATTAATAACAATA
TTAATTATAATAAAGGTCACATAAACTTTATAAAATTCATAACTGGTAGCTATAACTTGAGCTTATTCAGGATGGT
TCTTTAAACCATAAACTGTACAATG

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FIGURE 1037

MAFMKKYLLPILGLFMAYYYYSANEEFRPEMLQGKKVIVTGASKGIGREMAYHLAKMGAVVVTARSKETLQKV
SHCLELGAASAHYIAGTMEDMTFAEQFVAQAGKLMGGLDMLILNHITNTSLNLFHDDIHHVRKSMEVNFLSYVVL
TVAALPMLKQSNQSIIVVSSLAGKVAYPMVAAYSASKFALDGFFSSIRKEYSVSRVNVSITLCVLGLIDTETAMK
AVSGIVHMQAAPKEECALEIIKGGALRQEEVYYDSSLWTTLLIRNPCRKILEFLYSTSYNMDRFINK

1171/2825
FIGURE 1038

AGGCCGCTAGGGTGCGGGGTTGGGGAGGAGGCCGCTAGTCTACGCCTGTGGAGCCGATACTCAGCCCTCTGCGAC
CATGGCTGTGCTGGCGGCACCTTCTGCGCAGCGGCGCCCGCAGCCGCAGCCCCCTGCTCCGGAGGGCTGGTGCAGGA
AATAAGATATGTGGAACGGAGTTATGTATCAAAAACCCACTTTGAAGGAAGTGGTCATAGTAAAGTGTCTACAAGAAC
ACCCATTGGATCTTTTTTTAGGCAGCCTTTCCCTTGCTGCCAGCCACTAAGCTTGGTTCCATTGCAATTCAGGGAGC
CATTGAAAAGGCAGGGATTCCAAAAGAAGAAGTGAAAGAAGCATAACATGGGTAATGTTCTACAAGGAGGTGAAGG
ACAAGCTCCTACAAGGCAGGCAGTATTGGGTGCAGGCTTACCTATTTCTACTCCATGTACCACCATAAACAAAGT
TTGTGCTTCAGGAATGAAAGCCATCATGATGGCCTCTCAAAGTCTTATGTGTGGACATCAGGATGTGATGGTGGC
AGGTGGGATGGAGAGCATGTCCAATGTTCCATATGTAATGAACAGAGGATCAACACCATATGGTGGGGTAAAGCT
TGAAGATTTGATTGTAAAAGACGGGCTAACTGATGTCTACAATAAAATTCATATGGGCAGCTGTGCTGAGAATAC
AGCAAAGAAGCTGAATATTGCACGAAATGAACAGGACGCTTATGCTATTAATTCTTATACCAGAAGTAAAGCAGC
ATGGGAAGCTGGGAAATTTGGAAATGAAGTTATTCCTGTCACAGTTACAGTAAAAGGTCAACCAGATGTAGTGGT
GAAAGAAGATGAAGAATATAAACGTGTTGATTTTAGCAAAGTTCCAAAGCTGAAGACAGTTTTCCAGAAAAGAAA
TGGCACAGTAACAGCTGCCAATGCCAGTACACTGAATGATGGAGCAGCTGCTCTGGTTCTCATGACGGCAGATGC
AGCGAAGAGGCTCAATGTTACACCACTGGCAAGAATAGTAGCATTGCTGACGCTGCTGTAGAACCTATTGATTT
TCCAATTGCTCCTGTATATGCTGCATCTATGGTTCTTAAAGATGTGGGATTGAAAAAAGAAGATATTGCAATGTG
GGAAGTAAATGAAGCCTTTAGTCTGGTTGTACTAGCAAACATTAAAATGTTGGAGATTGATCCCCAAAAAGTGAA
TATCAATGGAGGAGCTGTTTCTCTGGGACATCCAATTGGGATGTCTGGAGCCAGGATTGTTGGTCAATTGACTCA
TGCTTGAAGCAAGGAGAATACGGTCTTGCCAGTATTTGCAATGGAGGAGGAGGTGCTTCTGCCATGCTAATTCA
GAAGCT**GTAG**ACAACCTCTGCTATTTAAGGAGACAACCCCTATGTGACCAGAAGGCCTGCTGTAAATCAGTGTGACT
ACTGTGGGTCTAGCTTATATTCAGATAAGCTGTTTCATTTTTTTATTATTTTCTATGTTAACTTTTAAAAATCAAAA
TGATGAAATCCCAAACA

1172/2825
FIGURE 1039

MAVLAALLRSGARSRSPLLRRLVQEIRYVERSYVSKPTLKEVVIVSATRTPIGSFLGSLSLLPATKLGSIQGA
IEKAGIPKEEVKEAYMGNVLQGGEGQAPTRQAVLGAGLP ISTPCTTINKVCASGMKAIMMASQSLMCGHQDVMVA
GGMESMSNVPYVMNRGSTPYGGVKLEDLIVKDGLTDVYNKIHMGSCAENTAKKLNIARNEQDAYAINSYTRSKAA
WEAGKFGNEVIPVTITVKGQPDVVVKEDEEYKRVDFSKVPKLKTVFQKENGTVTAANASTLNDGAAALVLMTADA
AKRLNVTPLARIVAFADA AVEPIDFPIAPVYAASMLKDVGLKKEDIAMWEVNEAFSLVVLANIKMLEIDPQKVN
INGGAVSLGHP IMSGARIVGHLTHALKQGEYGLASICNGGGGASAMLIQKL

1173/2825
FIGURE 1040A

CAGCATCAATAAGGCCATTAATACGCAGGAAGTGGCTGTAAAGGAAAAACACGCCAGAACGTGCATACTGGGCAC
CCACCATGAGAAAGGGGCACAGACCTTCTGGTCTGTGTCAACCGCCTGCCTCTGTCTAGCAACGCAGTGCTCTG
CTGGAAGTTCTGCCATGTGTTCCACAACTCCTCCGAGATGGACACCCGAACGTCTGAAGGACTCTCTGAGATA
CAGAAATGAATTGAGTGACATGAGCAGGATGTGGGGCCACCTGAGCGAGGGGTATGGCCAGCTGTGCAGCATCTA
CCTGAAACTGCTAAGAACCAAGATGGAGTACCACACCAAAAATCCCAGGTTCCCAGGCCAACCTGCAGATGAGTGA
CCGCCAGCTGGACGAGGCTGGAGAAAGTGACGTGAACAACCTTTTTCCAGTTAACAGTGGAGATGTTTGACTACCT
GGAGTGTGAACTCAACCTCTTCCAAACAGTATTCAACTCCCTGGACATGTCCCGCTCTGTGTCCGTGACGGCAGC
AGGGCAGTGCCGCCTCGCCCCGCTGATCCAGGTCATCTTGACTGCAGCCACCTTTATGACTACACTGTCAAGCT
TCTCTTCAAACCTCCACTCCTGCCTCCCAGCTGACACCCTGCAAGGCCACCGGGACCGCTTCATGGAGCAGTTTAC
AAAGTTGAAAGATCTGTTCTACCGCTCCAGCAACCTGCAGTACTTCAAGCGGCTCATTGAGATCCCCCAGCTGCC
TGAGAACCCACCCAACCTTCTGCGAGCCTCAGCCCTGTCAGAACATATCAGCCCTGTGGTGGTGATCCCTGCAGA
GGCCTCATCCCCGACAGCGAGCCAGTCTAGAGAAGGATGACCTCATGGACATGGATGCCTCTCAGCAGAAATTT
ATTTGACAACAAGTTTGATGACATCTTTGGCAGTTCATTGAGCAGTGATCCCTTCAATTTCAACAGTCAAAATGG
TGTGAACAAGGATGAGAAGGACCACTTAATTGAGCGACTATACAGAGAGATCAGTGGATTGAAGGCACAGCTAGA
AAACATGAAGACTGAGAGCCAGCGGGTTGTGCTGCAGCTGAAGGGCCACGTGAGCGAGCTGGAAGCAGATCTGGC
CGAGCAGCAGCACCTGCGGCAGCAGGCGGCCGACGACTGTGAATTCCTGCGGGCAGAACTGGACGAGCTCAGGAG
GCAGCGGGAGGACACCGAGAAGGCTCAGCGGAGCCTGTCTGAGATAGAAAGGAAAGCTCAAGCCAATGAACAGCG
ATATAGCAAGCTAAAGGAGAAGTACAGCGAGCTGGTTGAGAACCACGTGACCTGCTGCGGAAGAATGCAGAGGT
GACCAAACAGGTGTCCATGGCCAGACAAGCCAGGTAGATTGGAACGAGAGAAAAAAGAGCTGGAGGATTTCGTT
GGAGCGCATCAGTGACCAGGGCCAGCGGAAGACTCAAGAACAGCTGGAAGTTCTAGAGAGCTTGAAGCAGGAAC
TGCCACAAGCCAACGGGAGCTTCAGGTTCTGCAAGGCAGCCTGGAACCTTCTGCCCAGTCAGAAGCAAACTGGGC
AGCCGAGTTTCGCCGAGCTAGAGAAGGAGCGGGACAGCCTGGTGAGTGGCGCAGCTCATAGGGAGGAGGAATTATC
TGCTCTTCGGAAGAAGTGCAGGACACTCAGCTCAAACTGGCCAGCACAGAGGAATCTATGTCCAGCTTGCCAA
AGACCAACGAAAAATGCTTCTGGTGGGGTCCAGGAAGGCTGCGGAGCAGGTGATACAAGACGCCCTGAACCAGCT
TGAAGAACCTCCTCTCATCAGCTGCGCTGGGTCTGCAGATCACCTCCTCTCCACGGTCACATCCATTTCCAGCTG
CATCGAGCAACTGGAGAAAAGCTGGAGCCAGTATCTGGCCTGCCCAGAAGACATCAGTGGACTTCTCCATTCCAT
AACCTTGCTGGCCACTTGACCAGCGACGCCATTGCTCATGGTGCCACCACCTGCCTCAGAGCCCCACCTGAGCC
TGCCGACTCACTGACCGAGGCCTGTAAGCAGTATGGCAGGGAAACCTCGCCTACCTGGCCTCCCTGGAGGAAGA
GGGAAGCCTTGAGAATGCCGACAGCACAGCCATGAGGAACCTGCCTGAGCAAGATCAAGGCCATCGGCGAGGAGCT
CCTGCCCAGGGGACTGGACATCAAGCAGGAGGAGCTGGGGGACCTGGTGGACAAGGAGATGGCGGCCACTTCAGC
TGCTATTGAACTGCCACGGCCAGAATAGAGGAGATGCTCAGCAAATCCCGAGCAGGAGACACAGGAGTCAAATT
GGAGGTGAATGAAAGGATCCTTGGTTGCTGTACCAGCCTCATGCAAGCTATTGAGGTGCTCATCGTGGCCTCTAA
GGACCTCCAGAGAGAGATTGTGGAGAGCGGACGGGGTACAGCATCCCCTAAAGAGTTTTATGCCAAGAACTCTCG
ATGGACAGAAGGACTTATCTCAGCCTCCAAGGCTGTGGGCTGGGGAGCCACTGTCATGGTGGATGCAGCTGATCT
GGTGGTACAAGGCAGAGGGAATTTGAGGAGCTAATGGTGTGTTCTCATGAAATTGCTGCTAGCACAGCCCAGCT
TGTGGCTGCATCCAAGGTGAAAGCTGATAAGGACAGCCCCAACCTAGCCCAGCTGCAGCAGGCCTCTCGGGGAGT
GAACCAGGCCACTGCCGGCGTTGTGGCCTCAACCATTTCGGCAAATCACAGATCGAAGAGACAGACAACATGGA
CTTCTCAAGCATGACGCTGACACAGATCAAACGCCAAGAGATGGATTCTCAGGTTAGGGTGTAGAGCTAGAAAA
TGAATTGCAGAAAGGAGCGTCAAAAACCTGGGAGAGCTTCGGAAAAAGCACTACGAGCTTGCTGGTGTGCTGAGGG
CTGGGAAGAAGGAACAGAGGCATCTCCACCTACACTGCAAGAAAGTGGTAACCGAAAAAGAATAGAGCCAAACCAA
CACCCCATATGTCAGTGTAATCCTTGTTACCTATCTCGTGTGTGTTATTTCCCCAGCCACAGGCCAAATCCTTG
GAGTCCCAGGGGCGAGCCACACCCTGCCATTACCCAGTGCCGAGGACATGCATGACACTTCCCAAAGACTCCCTC
CATAGCGACACCCCTTTCTGTTTGGACCCATGGTCATCTCTGTTCTTTTCCCGCTCCCTAGTTAGCATCCAGGCT
GGCCAGTGCTGCCCATGAGCAAGCCTAGGTACGAAGAGGGGTGGTGGGGGGCAGGGCCACTCAACAGAGAGGACC
AACATCCAGTCTCTGCTGACTATTTGACCCCCACAACAATGGGTATCCTTAATAGAGGAGCTGCTTGTGTTTGT
GACAGCTTGGAAGGGAAGATCTTATGCCTTTTCTTTTCTGTTTCTTCTCAGTCTTTTTCAGTTTCATCATTTGC
ACAACTTGTGAGCATCAGAGGGCTGATGGATTCCAAACCAGGACACTACCCTGAGATCTGCACAGTCAGAAGGA
CGGCAGGAGTGTCTGGCTGTGAATGCCAAGCCATTCTCCCCCTCTTGGGCAGTGCCATGGATTTCCACTGCT

1174/2825
FIGURE 1040B

TCTTATGGTGGTTGGTTGGGTTTTTGGTTTTGTTTTTTTTTTTTTAAGTTTCACTCACATAGCCAACTCTCCCAA
AGGGCACACCCCTGGGGCTGAGTCTCCAGGGCCCCCAACTGTGGTAGCTCCAGCGATGGTGCTGCCCAGGCCTC
TCGGTGCTCCATCTCCGCCTCCACACTGACCAAGTGCTGGCCACCCAGTCCATGCTCCAGGGTCAGGCGGAGCT
GCTGAGTGACAGCTTTCCCTCAAAAAGCAGAAGGAGAGTGAGTGCCTTTCCCTCCTAAAGCTGAATCCCGGCGGAA
AGCCTCTGTCCGCCTTTACAAGGGAGAAGACAACAGAAAAGAGGGACAAGAGGGTTACACAGCCCAGTTCCTCGTG
ACGAGGCTCAAAAACCTTGATCACATGCTTGAATGGAGCTGGTGAGATCAACAACACTACTTCCCTGCCGGAATGA
ACTGTCCGTGAATGGTCTCTGTCAAGCGGGCCGTCTCCCTTGCCCGAGAGACGGAGTGTTGGGAGTGATTCCCAAC
TCCTTTCTGCAGACGTCTGCCTTGGCATCCTCTTGAATAGGAAGATCGTTCCACTTTCTACGCAATTGACAAACC
CGGAAGATCAGATGCAATTGCTCCCATCAGGGAAGAACCTTATACTTGGTTTGCTACCCTTAGTATTTATTACTA
ACCTCCCTTAAGCAGCAACAGCCTACAAAGAGATGCTTGGAGCAATCAGAAGTTCAGGTGTGACTCTAGCAAAGC
TCATCTTTCTGCCCGGTACATCAGCCTTCAAGAATCAGAAGAAAGCCAAGGTGCTGGACTGTTACTGACTTGGA
TCCCAAAGCAAGGAGATCATTGGAGCTCTTGGGTGAGAGAAATGAGAAAGGACAGAGCCAGCGGCTCCAACCTC
CTTTCAGCCACATGCCCCAGGCTCTCGCTGCCCTGTGGACAGGATGAGGACAGAGGGCACATGAACAGCTTGCCA
GGGATGGGCAGCCCAACAGCACTTTTCTCTCTAGATGGACCCAGCATTTAAGTGACCTTCTGATCTTGGGAA
AACAGCGTCTTCTTCTTTATCTATAGCAACTCATTGGTGGTAGCCATCAAGCACTTCCCAGGATCTGCTCCAAC
AGAATATTGCTAGGTTTTGCTACATGACGGGTGTGAGACTTCTGTTTGATCACTGTGAACCAACCCCCATCTCC
CTAGCCACCCCCCTCCCCAACTCCCTCTCTGTGCATTTTCTAAGTGGGACATTCAAAAACTCTCTCCCAGGAC
CTCGGATGACCATACTCAGACGTGTGACCTCCATACTGGGTAAAGGAAGTATCAGCACTAGAAATTGGGCAGTCT
TAATGTTGAATGCTGCTTTCTGCTTAGTATTTTTTTGATTCAAGGCTCAGAAGGAATGGTGCGTGGCTTCCCTGT
CCCAGTTGTGGCAACTAAACCAATCGGTGTGTTCTTGATGCGGGTCAACATTTCCAAAAGTGGCTAGTCCCTCACT
TCTAGATCTCAGCCATTCTAACTCATATGTTCCCAATTACCAAGGGGTGGCCGGGCACAGTGGCTCACGCCTGTA
ATCCCAGCACTTTGAGAGGCTGAGGTGGTAGGATCACCTGAGGTGAGGAGTTCAAGACCAGCCTGTCCAACATGG
TGAAACCCCCATCTCTACTAAAAATACAAAAAATTAGCCGAGCGTAGTGACGGGTGCCCGTAATCCCAGCTACTC
AGGAGGCTGAGACAGGAGAATCACCTGAACCCCAGAGGCAGAGGTTGCAGTGAGCTGAGATCACGCCATTGTACT
CCAGCCTGGGCAACAAGAGCAAACTCCGTCTCAAAAAAAAAAAAAAAAAAATTACAAATGGGGCAACAGTCTAGTGT
AATGGATCAAATTAAGATTCTCTGCCAGCCGGGCACAGTGGCGCATGCCTGTAATCCAGAAGCTTTGGGAGGCC
AAGACGGGATGATTGCTTGAGCTCAGGAGTTTGAGACCAGGCTGGGCATCATAGCAAGACCTCATCTCTACTAAA
ATTCAAAAACAAAATTAGCCGGGCATGATGGTGCATGCCTGTAGTCTCAGCTAGTTGGGGAGCTAAGGTGGGAGA
ATTGCTTGAGCTTGGGAAGTCGAGGCTGCAGTCAGCCCTGATTGTGCCAGTGCCTCCGGCCTGGGTGACAGAGT
GAGACCCGTGCTCAAAAAAAAAAAGATTCTGTGTCAGAGCCCAGCCAGGAGTTTGAGGCTGCAATGAGCCATGA
TTTCCCCTGCACTCCAGCCTGAGTGACAGAGCGAGACTCCATCTCTTTAAAAACAAACAAAAAATTATCTGAAT
GATCCTGTCTCTAAAAAGAAGCCACAGAAATGTTTAAAAACTTCATCGACTTAGCCTGAGTCATAACGGTTAAGA
AAGCACTTAAACAGAAGCAGAGGCTAATTCAGTGTACATGAGGAAGTAGCTGTCAGATGTCACATAATTACTTT
CGTAATAGCTCAGATTAGAATGGCTACCCCATCTCTAGACAAAATCAAATTGTCTATTGTGACTCTTCTAAAA
ATGAAGATGAAGAGCTATTTAATGACACACCTTGGATTAAAAACGGGAATCACATCTTAAAGCTAAAAATGAACCT
GCAAGCCTTCTAAATGAGTCACTGAGCATCACTAGTGACAAGTCTCGGGTGAGCGTAAATGGGTGATGACAAGAT
GGGACAGCAACAAAATCATGGCTTAGGATCGACAAGAAGTTAAAAAACAGCTGCATCTGTTACTTAAGTTTGTA
GACAGTGCCCTGAGACCTCTAGAGAAAAGATGTTTGTTTACATAAGAGAAAGAAGGCCAGACATGGTGTCTCACA
CGTTTAAATCCCAGCACTTTGGGAGGCAGGGGCGGGTGGATCACCTGAGGTGAGGAGTTCAAGACTAGCCTGGCCA
ACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCATGGTGGCAGGCGCCTATAATCCCAGCT
ACTGGGGAGGCTGAGGCAGGAGAATC

1175/2825
FIGURE 1041

MSRMWGHLSSEGYGQLCSIYLLKLLRRTKMEYHTKNPRFPGNLQMSDRQLDEAGESDVNNFFQLTVEMFDYLECELNL
FQTVFNSLDMRSVSVTAAGQCRLAPLIQVILDCSHLYDYTVKLLFKLHSCLPADTLQGHRDRFMEQFTKLKDLF
YRSSNLQYFKRLIQIPQLPENPPNPNFLRASALSEHISPVVVIPAEASSPDSEPVLEKDDLMDMDASQQNLFDNKFD
DIFGSSFSSDPFNFNSQNGVKNDEKDHLIERLYREISGLKAQLENMKTESQRVVLQLKGHVSELEADLAEQQHLR
QQAADDCEFLRAELDELRRQREDTEKAQRSLSIEIERKAQANEQRYSKLKEYSELVQNHADLLRKNAEVTQVSM
ARQAQVDLEREKKELEDSELERISDQGQRKTQEQLLEVLESLEKQELATSQRELQVLQGSLETSAQSEANWAAEFDEL
EKERDSLVSAGAAHREELSALRKELQDTQLKLASTEESMCQLAKDQRKMLLVGSRKAAEQVIQDALNQLEEPPLI
SCAGSADHLLSTVTSISSCIEQLEKSWSQYLACPEDISGLLHSITLLAHLTSDAIAHGATTCLRAPPEDSLTE
ACKQYGRETLYLASLEEEGSLENADSTAMRNCLSKIKAIGEELLPRGLDIKQEELGDLVDKEMAATSAAIETAT
ARIEEMLSKSRAGDTGVKLEVNERILGCCTSLMQAIQVLIVASKDLQREIVESGRGTASPKEFYAKNSRWTEGLI
SASKAVGWGATVMVDAADLVVQGRGKFEELMVCSEHIAASTAQLVAASKVKADKDSPNLAQLQQASRGVNQATAG
VVASTISGKSQIEETDNMDFSSMTLTQIKRQEMDSQVRVLELENELOKERQKLGEELRKKHYELAGVAEGWEEGTE
ASPPTLQEVVTEKE

1176/2825
FIGURE 1042

CGGCGGGCGGGCGGGCAGCGGACGGGCGGACTGACGGGCGCCTCCACCTTGCTCCCTCCCTGGCTGCCGGCTTCCTT
TTGTCTTTCTGGGCGGGCGATGAGCGCAGGGCCGGCGCAGCAGCTGCGGGCGCACGGAGGCCCGCGCTGCTAGTCA
CTCCTCCCGGCTTCGGCGCGCTTGTCGCCGGGCGAGCGGCCCGGGCCCGCTGCAGCCGCCCGCGGCGCCGAAGTTGG
GCTCGGGAAGCCGGCGGACCGCGTCCTGCGCCGGAGCAGGGGCATGGTCTAGTGGCCCAGTCAGGACGCGGAAAC
ACTCCCTGGAGGTTCTGACCCACTCCCTCTCAGCCTCCGCCCTGGTCTCTGGTGTAGTCGCCGCCGCCAGCCGCCA
TGGGCAAACAGAACAGCAAGCTGCGGCCCCGAGGTGCTGCAGGACCTGCGGGAGAACACGGAGTTCACCGACCACG
AGCTGCAGGAGTGGTACAAGGGCTTCCTCAAGGACTGCCCCACCGGCCACCTGACCGTGGACGAGTTCAAGAAGA
TCTACGCCAACTTCTTCCCCTACGGCGACGCTTCCAAGTTCGCCGAGCACGTCTTCCGCACCTTCGACACCAACG
GCGACGGCACCATCGACTTCCGGGAGTTCATCATTGCGCTGAGCGTGACCTCGCGGGGCAAGCTGGAGCAGAAGC
TCAAGTGGGCCTTCAGCATGTACGACCTGGACGGCAACGGCTACATCAGCCGCAGCGAGATGCTGGAGATCGTGC
AGGCCATCTACAAGATGGTGTCTGTGTGATGAAGATGCCGGAGGATGAGTCCACCCCGGAGAAGCGCACAGACA
AGATCTTCAGGCAGATGGACACCAACAATGACGGCAAACCTGTCCTTGGAAGAATTATCAGAGGTGCCAAGAGCG
ACCCCTCCATCGTCCGCCTGCTGCAGTGCACCCAGCAGTGCCAGTCAGTTCTGAGCGAGCGGGCCCTGGACAG
TTGCAGAGAAACACAGGCTTGTCGTGCCGTTTAAGCTTTGCTTGCAAGAGTGGATGCCCCGCAATCGTTCCCTGCT
CTCCCGGGCCCCGGGCTGGGGCATGCGTTGCACCTGCCCGGGCCCGGTGGCTGCGCCTCCCTCCTCCACCTGACC
AACGCGACATTCTTCCCCTCACGCCTGGCCCCGTCCCTTCCAGGGCAACTCCCAGGGATGTGGTGACATGCAGGG
TTCAAGTGTCTTGGTTCCAGGCACCTCCCGGCTCACGGGGAGCTCAGAGGTCCATGCCGAGGAGACCAGGCAGG
ACCTCCCGAGGCTGCGCCCCGGCCGGCCCATGCGTTTTGTGATCCCAAGTGAATCTGTGGGAAGGGTGGGGACGA
GGCGTCGGGAGGGTATACAGGGAGCCCCCTCCCGTGATGGCTGCCCCCCCCGTTTCAATTTCTCCACCACAGCCGCT
TGCACGTATAGATACTGTGGTCCCCTTTCTTTTAAATATATAAATTATGTATGGTGAAGTGGAGTGTATTGTGTAG
GTCCCGTATTTAATGCCTCTGACTGCCTTTGAAGCGCAGCCCTCTGTGGCCCGCAGCCCCCTGAGCCTGGCTGTT
GTGTGGTATTTATGCTCTCTTTGTCTGCCTGTTTCTAAGGAAATGCATGTGTGCCCTGAGCCGTGATGATCCTCC
CATCCGTGTTGTGAGCACAGGCATTTGTGTCTGGTCTGTCTCCCTGTTGATTGGTCTGGCATTTCGGGTATTAA
AATGATAAAATAAATGGCATTCTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1043

MGKQNSKLRPEVLQDLRENTFTDHELQEWYKGFLKDCPTGHLTVDEFKKIYANFFPYGDASKFAEHVFRFTDTN
GDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDLGNGYISRSEMLEIVQAIYKMOVSSVMKMPEDSTPEKRTD
KIFRQMDTNNDGKLSLEEFIRGAKSDPSIVRLLQCDESSASQF

1178/2825
FIGURE 1044

CGCGGCTCAGTAATTGAAGGCCTGAAACGCCCATGTGCCACTGACTAGGAGGCTTCCCTGCTGCGGGCACTTCATG
ACCCAGCGGCGCGCGGCCAGTGAAGCCACCGTGGTGTCCAGCATGGCCGCGCTGCTCCTGGGCGCGGTGCTGCT
GGTGGCCCAGCCCCAGCTAGTGCCCTTCCCGCCCCGCCGAGCTAGGCCAGCAGGAGCTTCTGCGGAAAGCGGGGAC
CCTCCAGGATGACGTCCGCGATGGCGTGGCCCCAAACGGCTCTGCCAGCAGTTGCCGAGACCATCATCATCGG
CGTGCACAAGGGCGGCACGCGCGCACTGCTGGAGATGCTCAGCCTGCACCCCGACGTGGCGGCCGCGGAGAACGA
GGTCCACTTCTTCGACTGGGAGGAGCATTACAGCCACGGCTTGGGCTGGTACCTCAGCCAGATGCCCTTCTCCTG
GCCACACCAGCTCACAGTGGAGAAGACCCCCGCGTATTTACGTCGCCCCAAAGTGCCTGAGCGAGTCTACAGCAT
GAACCCGTCCATCCGGCTGCTGCTCATCCTGCGAGACCCGTCGGAGCGCGTGCTATCTGACTACACCCAAGTGTT
CTACAACCACATGCAGAAGCACAAGCCCTACCCGTCCATCGAGGAGTTCCTGGTGCGCGATGGCAGGCTCAATGT
GGACTACAAGGCCCTCAACCGCAGCCTCTACCACGTGCACATGCAGAACTGGCTGCGCTTTTTCCCGCTGCGCCA
CATCCACATTGTGGACGGCGACCGCCTCATCAGGGACCCCTTCCCTGAGATCCAAAAGGTCGAGAGGTTCTTAAA
GCTGTGCGCCGAGATCAATGCTTCGAACTTCTACTTTAACAAAACCAAGGGCTTTTACTGCCTGCGGGACAGCGG
CCGGGACCGCTGCTTACATGAGTCCAAAGGCCGGGCGCACCCCCAAGTCGATCCCAAATACTCAATAAACTGCA
CGAATATTTTCATGAGCCAAATAAGAAGTTCTTCGAGCTTGTGGCAGAACATTTGACTGGCACTTGATTTGCAAT
AAGCTAAGCTCAGAACTTTTCTACTGTAAAGTTCTGGTGTACATCTGAGGGGAAAAAGAATTTTAAAAAAGCATT
TAAGGTATAATTTATTTGTAAATCCATAAAGTACTTCTGTACAGTATTAGATTACAATTGCCATATATACTAG
TTATATTTTCTACTTGTTAAATGGAGGGCATTGTGATTGTTTTTCATGTTGTTAACATTGTGTAATATGTCT
CTATATGAAGGAATAAATACTTTTACTGA

1179/2825
FIGURE 1045

MAALLLGAVLLVAQPQLVPSRPAELGQQELLRKAGTLQDDVRDGVAPNGSAQQLPQTIIIGVRKGGTRALLEMLS
LHPDVAAAENEVHFFDWEHHYSHGLGWYLSQMPFSWPHQLTVEKTPAYFTSPKVPERVYSMNPSIRLLLLILRDP
ERVLSDYTQVFYNHMQKHKPYPSIEEFLLVRDGRNLNDYKALNRSYHVHMQNWLRFPLRHHIIVDGDRLIRDPF
PEIQKVERFLKLSPQINASNIFYFNKTKGFYCLRDGRDRCLHESKGRAHPQVDPKLLNKLHEYFHEPNKKFFELV
GRTFDWH

1180/2825
FIGURE 1046

CTAGATGACTGCCAGAAGCTCATAGAACACGGAGTCAACACTGCAGAGGACTTAGTCCGAGAAGGTGAAATCGCC
ATGCTTGGTGGTGTGGGAGAAGAGAATGGGAAACTGTGGAGCTTTACCAAAAAGGCCTCGCACATTCAGTTGGAC
AGCTTACCAGAAGTACCTTTACTGGTTGATGTGCCTTGTTTATCTGCTCAGTTGGATGACTCAATTCTTAACATA
GTGAAAGACCACATTTTTTAAGCATGGAACAGTAGCATCTCGCCCACCAGTACAGATAGAAGAACTAATAGAGAAA
CCTGGAGGCATCATTGTACGATGGTGTAAAGGTGGATGATGACTTTACAGCCCAAGATTACAGGCTCCAGTTTCGT
AAATGTACTTCAAATCATTTTTGAGGATGTATATGTAGGTTCTGAAACTGAATTCATAGTATTGCACATAGACCCC
AACGTTGATTACCAGTTCAGAGTCTGCGCCCGAGGAGATGGAGCTGGAGCCTGAGCTGCTGTTGCAGGAGGCCCG
CGAGAACGTGGAGGCAGCGCAGAGCTACCGGCGGGAGCTGGGTCACCGGCTTGAGGGGCTGCGTGAGGCGCGGAG
GCAGATCAAAGAAAGTGCATCACAGACAAGGGATGTTCTCAAACAGCATTTTAATGATTTAAAGGGAACCGTTGG
AAAGCTCCTGGATGAGCGATTGGTGACCTTTTGCAAGAGGTGGACACCATTGAACAGGAGACCATTAAACCACT
AGATGACTGCCAGAAGCTCATAGAACACGGAGTCAACACTGCAGAGGACTTAGTCCGAGAAGGTGAAATCGCCAT
GCTTGGTGGTGTGGGAGAAGAGAATGAGAACTGTGGAGCTTTACCAAAAAGGCCTCGCACATTCAGTTGGACAG
CTTACCAGAAGTACCTTTACTGGTTGATGTGCCTTGTTTATCTGCTCAGTTGGATGACTCAATTCTTAACATAGT
GAAAGACCACATTTTTTAAGCATGGAACAGTAGCATCTCGCCCACCAGTACAGATAGAAGAACTAATAGAGAAACC
TGGAGGCATCATTGTACGATGGTGTAAAGGTGGATGATGACTTTACAGCCCAAGATTACAGGCTCCAGTTTCGTAA
ATGTACTTCAAATCATTTTTGAGGATGTATATGTAGGTTCTGAAACTGAATTCATAGTATTGCACATAGACCCCAA
CGTTGATTACCAGTTCAGAGTCTGCGCCCGAGGAGATGGCCGACAGGAGTGGAGTCCTTGAGTGTCCCCCAGAT
AGGTCATTCCACATTGGTGCCTCATGAGTGGACAGCTGGTTTTGAGGGGTACAGTCTGAGCAGTCGAAGAAATAT
AGCACTTCGGAACGATTCTGAATCATCGGGTGTCTCTACTCCAGAGCTCCGACTTATTTCTGTGGGCAGACATT
AACATTCAGAGTTGAAACTGTGGGACAGCCAGACAGAGAAGAGATAGCATAGGAGTGTGCGCAGAAAAACAGGATGG
ATATGACTCTCTGCAGCGGGATCAAGCTGTGTGCATTAGTACAAATGGTGCAGTTTTTGTCAATGGAAAAAGAAAT
GACAAATCAGTTACCCGCAGTTACTTCTGGGTCCACTGTCACGTTTGACATTGAAGCCGTGACTCTAGGAACCAC
CAGTAATAATGAAGGTGGACACTTCAAGCTTCGAGTAACATAAGTTCAAATAATAGAGAAGTGGTTTTTGACTG
GTTACTTGATCAGTCTTGIGGTTCTCTTTACTTTGGATGCTCATTTTTCTATCCTGGATGGAAAGTGTAGTGT
TTAGATGTTTTGGGTGCTTGGCTTTGGTTTTCAGGGTCTAACGTAGCTGTCCTCAGCCCAGCGTAGTTGTAATTGC
TTTAAAAAAAAGTTGAATTCATCTCTAAGCTTAGGCCATTGGAAAGTGTTTACTGGATTCATTTTGTAATATTTT
AGCAAAAAGAGACTTCAATGTTGTGGACAAAATCATACAATTCAGTCAATTTTATTTTTAGCATACTGTTAAATA
TCACATCACAATAAAAATCAAATTGGCATTAAAAGTATAGAAGATATAGGAAGTTCTATACCCCTCCACTGTACT
TCTCAAAGTTGGTTATTAGACCAGGAAAACCTAATGTAATATTATTTTTAAATCATCTTAAAGGATCCAAGTCC
ATGTAACCTCTTTAGAACAAGAGGAATAGGTCAGATAGAAGAAGCTGTGTAATGTATTAAATACATCCGTTTCATGTG
CTGTCCACATGAATGTGTTGACTGTGCTCTCCATGTTTCAGGTATTTGTAAGCAGTGTGACTTTTATCCCTCTT
CAGTAATCTTTAAGTCCCCAAAACATTATAATTTTTCTTTTTTTGTTGAGACGGAGTCTCACTCTTGTCACTCA
GGCTGGAGTGCAGTGGTGTGATCTCAGTTCACTGCAACCTCTGCCCTCCACGTTCAAGCGATCCTCCTGCCTCAG
CCTCCTGAGTAGCTGGGATTACAGGTGTCGGCCACCACACCTGGCTAATTTTTGTATTTTTTAGTAGAGACAGGGT
TTCACCATGTTGGCCAGGCTGGTCTTTAACTCCTGACCTCAGGTGTTCCACCCACCTCAGCCTTCCAAAGTGCTA
GGATTACAGGCGTGAGCCACTGCAGTGGGCCAATTTTTGTATTTTTTAAATGCTTGACCAAGTGTCTAAAAATAG
GCAAGTAGTACCTTTTGTCTTTTCATTGCAATTTGATACAGTATAGGCTACAGTATTTTTACAGGGTAAAACTAG
TTATGGCAGTAGTATGCACAGCAGTGTAGCCATTTTCGTATGTATGTAATATGCACGTGTGTATCCAATCTGCCT
GTGACATGCATTTTACTCTTTGTCAGAGAATGAGCTGCAGTCCAGTTTAATGTGAGTTTAATAAGTGGTCTCTTTT
TAGCAGAGCAAAAAAATATAGCGTAAATACTTATTTTTTTTTAAAACTTACTTAAATTTGTGTGTAATAATTTA
TTTGAAGGACTTTAATATGTAAAAATAATTGTCTTCTATGCCACCCTACAGATTCTATTTTTAATGTGAATTATTT
TTTTCATTTTTTACCAGTAGTAAAAAAGTAGAAAAGCAAGTATGATATTTTTGTAAAGATAATTTATTTGGGGATT
ATGTTCCCTGTTAGACAATCATGACCTTTTCTACTTGTCTTTTTATATATAAGTAGTAGATTTCCACTTGTTTA
GGGATTAAGAAGATGTTCTAGAATGTAGATACCTTGTCCAGCCATAGGAATCAAATAAAAAACTAAAAA
AAAAAAAAAAAAAAAAAAAAA

1181/2825
FIGURE 1047

MELEPELLLQEARENVEAAQSYRRELGHRLEGLREARRQIKESASQTRDVLKQHFNDLKGTVGKLLDERLVTLLQ
EVDTIEQETIKPLDDCQKLIHGVNTAEDLVREGEIAMLGGVGEENEKLWSFTKKASHIQLDLPEVPLLVDPVC
LSAQLDDSI LNIVKDHIFKHGTVASRPPVQIEELIEKPGGIIVRWCKVDDDFTAQDYRLQFRKCTSNHFEDVYVG
SETEFIVLHIDPNVDYQFRVCARGDGRQEWSPWSVPQIGHSTLVPHEWTAGFEGYSLSSRRNIALRNDSESSGVL
YSRAPTYFCGQTLTFRVETVGQPDRRDSIGVCAEKQDGYDSLQRDQAVCISTNGAVFVNGKEMTNQLPAVTSGST
VTFDIEAVTLGTTSNNEG GHFKLRVTISSNNREVVF DWLLDQSCGSLYFGCSFFYPGWKVLVF

1182/2825
FIGURE 1048

GTCCCCGCAGCGCCGTCGCGCCCTCCTGCCGCAGGCCACCGAGGCCGCCGCCGTCTAGCGCCCCGACCTCGCCAC
CATGAGAGCCCTGCTGGCGCGCCTGCTTCTCTGCGTCCTGGTCGTGAGCGACTCCAAAGGCAGCAATGAACCTTCA
TCAAGTTCCATCGAACTGTGACTGTCTAAATGGAGGAACATGTGTGTCCAACAAGTACTTCTCCAACATTCAGTG
GTGCAACTGCCCAAAGAAATTCGGAGGGCAGCACTGTGAAATAGATAAGTCAAAAACCTGCTATGAGGGGAATGG
TCACTTTTACCGAGGAAAGGCCAGCACTGACACCATGGGCCGCCCTGCCTGCCCTGGAACCTCTGCCACTGTCTT
TCAGCAAACGTACCATGCCCACAGATCTGATGCTCTTCAGCTGGGCCTGGGGAAACATAATTACTGCAGGAACCC
AGACAACCGGAGGCGACCCTGGTGCTATGTGCAGGTGGGCCCTAAAGCCGCTTGTCCAAGAGTGCATGGTGCATGA
CTGCGCAGATGGAAAAAGCCCTCCTCTCCTCCAGAAGAATTTAAATTTTCAAGTGTGGCCAAAAGACTCTGAGGCC
CCGCTTTAAGATTATTGGGGGAGAATTCACCACCATCGAGAACCAGCCCTGGTTTGCGGCCATCTACAGGAGGCA
CCGGGGGGGCTCTGTCTACCTACGTGTGTGGAGGCAGCCTCATCAGCCCTTGTGCGGTGATCAGCGCCACACACTG
CTTCATTGATTACCCAAAGAAGGAGGACTACATCGTCTACCTGGGTGCTCAAGGCTTAACTCCAACACGCAAGG
GGAGATGAAGTTTGAGGTGGAAAACCTCATCCTACACAAGGACTACAGCGCTGACACGCTTGTCTACCACAACGA
CATTGCCTTGCTGAAGATCCGTTCCAAGGAGGGCAGGTGTGCGCAGCCATCCCGGACTATACAGACCATCTGCCT
GCCCTCGATGTATAACGATCCCCAGTTTGGCACAAGCTGTGAGATCACTGGCTTTGGAAAAGAGAATTCTACCGA
CTATCTCTATCCGGAGCAGCTGAAAATGACTGTTGTGAAGCTGATTTCCACCGGGAGTGTGAGCAGCCCCACTA
CTACGGCTCTGAAGTCACCACCAAAATGCTATGTGCTGCTGACCCCCAATGGAAAACAGATTCTGCCAGGGAGA
CTCAGGGGGGACCCCTCGTCTGTTCCCTCCAAGGCCGCATGACTTTGACTGGAATTGTGAGCTGGGGCCGTGGATG
TGCCCTGAAGGACAAGCCAGGCGTCTACACGAGAGTCTCACACTTCTTACCCTGGATCCGCAGTCACACCAAGGA
AGAGAATGGCCTGGCCCTCT**TGA**AGGGTCCCCAGGGAGGAAAACGGGCACCACCCGCTTTCTTGCTGGTTGTGATTTT
TGCAGTAGAGTCATCTCCATCAGCTGTAAGAAGAGACTGGGAAGATAGGCTCTGCACAGATGGATTTGCCTGTGG
CACCACCAGGGTGAACGACAATAGCTTTACCCTCACGGATAGGCCTGGGTGCTGGCTGCCCAGACCCCTCTGGCCA
GGATGGAGGGGTGGTCTCTGACTCAACATGTTACTGACCAGCAACTTGTCTTTTTCTGGACTGAAGCCTGCAGGAG
TTAAAAAGGGCAGGGCATCTCCTGTGCATGGGCTCGAAGGGAGAGCCAGCTCCCCCGACCGGTGGGCATTTGTGA
GGCCCATGGTTGAGAAATGAATAATTTCCCAATTAGGAAGTGTAGCAGCTGAGGTCTCTTGAGGGAGCTTAGCC
AATGTGGGAGCAGCGGTTTGGGGAGCAGAGACACTAACGACTTCAGGGCAGGGCTCTGATATTCCATGAATGTAT
CAGGAAATATATATGTGTGTGTATGTTTGACACTTGTGTGTGGGCTGTGAGTGTAGTGTGAGTAAGAGCTGG
TGTCTGATTGTTAAGTCTAAATATTTCCCTTAAACTGTGTGGACTGTGATGCCACACAGAGTGGTCTTTCTGGAGA
GGTTATAGGTCACCTCTGGGGCCTCTTGGGTCCCCACGTGACAGTGCCTGGGAATGTACTTATTCTGCAGCATG
ACCTGTGACCAGCACTGTCTCAGTTTCACTTTACATAGATGTCCCTTTCTTGCCAGTTATCCCTTCCTTTTAG
CCTAGTTCATCCAATCCTCACTGGGTGGGGTGAGGACCACTCCTTACACTGAATATTTATATTTCACTATTTTGA
TTTATATTTTGTAAATTTTAAATAAAAGTGATCAATAAAATGTGATTTTTCTGA

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FIGURE 1049

MRALLARLLLCVLVVSDSKGSNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKTCYEGNG
HFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGKHNYCRNPDNRRRPWCYVQVGLKPLVQECMVHD
CADGKKPSSPPEELKFQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTYVCGGSLISPCWVISATHC
FIDYPPKEDYIVYLGRSRLNSNTQGEMKFEVENLILHKDYSADTLAHHNDIALLKIRSKEGRCAQPSRTIQTICL
PSMYNDPQFGTSCEITGFGKENSTDYLYPEQLKMTVVVKLISHRECQQPHYYGSEVTTKMLCAADPQWKTDSCQGD
SGGPLVCSLQGRMTLTGIVSWGRGCALKDKPGVYTRVSHFLPWIRSHTKEEENGLAL

1184/2825
FIGURE 1050

CGGCTGAGAGGCAGCGAACTCATCTTTGCCAGTACAGGAGCTTGTGCCGTGGCCCACAGCCCACAGCCCACAGCC
ATGGGCTGGGACCTGACGGTGAAGATGCTGGCGGGCAACGAATTCCAGGTGTCCCTGAGCAGCTCCATGTCGGTG
TCAGAGCTGAAGGCGCAGATCACCCAGAAAGATTGGCGTGCACGCCTTCCAGCAGCGTCTGGCTGTCCACCCGAGC
GGTGTGGCGCTGCAGGACAGGGTCCCCCTTGCCAGCCAGGGCCTGGGCCCTGGCAGCACGGTCCTGCTGGTGGTG
GACAAATGCGACGAACCTCTGAGCATCCTGGTGAGGAATAACAAGGGCCGCAGCAGCACCTACGAGGTCCGGCTG
ACGCAGACCGTGGCCCACCTGAAGCAGCAAGTGAGCGGGCTGGAGGGTGTGCAGGACGACCTGTTCTGGCTGACC
TTCGAGGGGAAGCCCCTGGAGGACCAGCTCCCGCTGGGGGAGTACGGCCTCAAGCCCCTGAGCACCGTGTTCATG
AATCTGCGCCTGCGGGGAGGCGGCACAGAGCCTGGCGGGCGGAGC**TAA**GGGCCTCCACCAGCATCCGAGCAGGAT
CAAGGGCCGAAATAAAGGCTGTTGTAAGAGAAT

1185/2825
FIGURE 1051

MGWDLTVKMLAGNEFQVSLSSMSVSELKAQITQKIGVHAFQQR LAVHPSGVALQDRVPLASQGLGPGSTVLLVV
DKCDEPLSILVRNNKGRSSTYEVRLTQTV AHLKQQVSGLEGVQDDLFWLTFEGKPLEDQLPLGEYGLKPLSTVFM
NLRLRGGGTEPGGRS

1186/2825
FIGURE 1052

TTTAAGGCGCCGGGTTTCCGGGGCTCCTGGCCCCGCTTATTCCGCGGGGGTTCGGCGGGGTTCGGCCTGGGCGCCCCG
CGCCGCCGCTGCGCTTTGTCCGCTGGGCACACTGCTTCTGGGAGGGGCGGGCAGACATGGTGGCGGCCCGCCGCC
CCTCCTCGGCCCTAGCATGCCGCGGCCCGCCTCGCGGCTACCCGGCTTGCCGGTCCCAGCGGCAGCCCCGGGGTG
GCGATGGGGTTCGCGCCGAGGCAGCGGAGGTTCTGCGGGCGACTGGAGGTTGGCAGTGGGCGGGAGAAAAGAGGAAG
GCAGGCGCGGCTGGGCCTCGGCCTCTGGCGCCGCGGTACCCTTTGTCTCGGCAGCCTGACGGCCCCGCCGGGCTC
TCCGAGAGGGGAACGGGCGGCGAGGGTGGCGGGTCTGGGCGCCCTGTGCTGCGGGGCCGAGAGGCGCTCGGGT
CGCGGCGGGACCGGCCGACCAGACAGGGTTAATGGAAGAGCCTGGCCAGTCCGCGCGGGGGCCCCCGCAGCGAC
AGCCTTGCCGCGGGGACTGGAGTCTGAGGGGGAGAAGCCTGCCGTTCTTGAAGGCTCGGGACTTCTGCCCCAAA
GACTTCGCCGCCGAGAACTGCGGGTGCCTGAGGGAAGAAGTTGAGAATTTTGCCAGGTCATCTCTGCCAG
GGCACAGTTCATCACTGTGTGTTTAGTGTGTTTCGGTGAAGCTCTCCAAGTGTGTTGAATCAGCGTGCCTAGCCT
CAAGGGTGCATCGTGAAACTGAAACCAAAGGAATGATACAGGCCTGCTTTGTGTGTGTCTTCCCACTTTAAGCT
TGTTTTCAGTACAAATACTCTTGCTTTAAACCTGATTGGACTGTGGCGAGCGGACATCTGTTCAAAGGAGGGGCC
GAGACCACAGTACTTCTGAAGGGGGCTTGATAATGTGGAAACATTTTAAGTTTTCTCTCCGGACTGTTTTGCTCT
CTCAATTCAGGCAAGTTACTGAAGTACGTTTTTTATCTAGAAAAAGGTTTGATGTAGTCTGTAAATGGTCCTTGT
AAAGTACATTGCCATCTCAGAATTAAGATCCACTCTCATTATTATGCAGAAGTTAGTGGTCATTCTTTCCTG
TAGATAGTTTATCTCATGTAAAGACCCACCCAGCTTGGTTTAAATTTTTTCTCACTGACGTATAACCATCAGCT
TTGATACTTCCATTTTCAGGCTCAGACTTTGAATTTAAGGAACTAAAGATGACTTTATTTTCTTTTCTCTTGGT
TTTTTTTTCCAAAAACAAAAATAAATCCATTACATGTTAACATAGATGATAAGAGTGACATCTTGCATTTTTGC
AAATCTTTTTTAATGCCTGGTTTAATAGAAGATTCTCAGATCTACGTCAGACTGTTGTGGTTAGCACACCATGTAA
CCTCTGGAACACTCCACTGTACACTCATACTTTTTTT

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FIGURE 1053

MPRPFRGYACRSRAAAPGWRWGRAEAAEVLRAATGGWQWAGERGRQARLGLGLWRRGTLCIGSLTAPPGSPERGT
GGEGGGSWAPCAAGPRGARVAAGPAGPDRVNGRAWPVPRGAPAATALAAGTGVLGRSLPF

1188/2825
FIGURE 1054

CGACGCGGGAGCCGCACGCGCCGGACGAGGCTCGCTGCGCTCCCTGTTGCCAGCGCGGGCCCGTTGAGGCGGAG
CCCTCAGTTCCCGGCCAGGACACGGTCTGGGCGCGCGAATCTCCGGCCGAAGAGCGGCGGCGGCAGCGGCGGGAA
AAAA**ATGA**AAGAAATGAAATTGCTGCCGTTGTCTTCTTTTTTCACAAGGCTAGTTCGAAAACATGATAAGTTGAAAA
AGAGGCAGTTGAGAGGTTTGTCTGAGAAAATTGACCCTAATACTTCAAGAAAAATATAAAAAATCACTGGTATCCAGA
AAAACCATCGAAAGGACAGGCCTACAGATGTATTTCGTGTCAATAAATTTTCAGAGAGTTGATCCTGATGTCTTGAA
AGCCTGTGAAAACAGCTGCATCTTGTATAGTGACCTGGGCTTGCCAAAGGAGCTCACTCTCTGGGTGGACCCATG
TGAGGTGTGCTGTCTGTAGAGATGGGGTTTACCATGTTGGCCAGACTGCTCTCAAACCTCCTGACCTCGTGATCCG
CCCGCCTTGGCCTCCCAAAGCGCTGGATTACAGGCGTGAGCCACTGCGCCCGGCCTCCTCCTTTTTTGATTATGTA
TGGAGAGAAAAACAATGCATTCATTGTTGCCAGCTTTGAAAAATAAGATGAGAACAAGGATGAGATCTCCAGGAA
AGTTACCAGGGCCCTTGATAAGGTTACCTCTGATTATCATTACAGGATCCTCTTCTTCAGATGAAGAAACAAGTAA
GGAAATGGAAGTGAACCCAGTTCGGTGACTGCAGCCGCAAGTCCTGTGTACCAGATTTTCAGAACTTATATTTCC
ACCTCTTCCAATGTGGCACCCTTTGCCAGAAAAAAGCCAGGAATGTATCGAGGGAATGGCCATCAGAATCACTA
TCCTCCTCCTGTTCCATTTGGTTATCCAAATCAGGGAAGAAAAAATAAACCATATCGCCCAATTCCAGTGACATG
GGTACCTCCTCCTGGAATGCATTGTGACCGGAATCACTGGATTAATCCTCACATGTTAGCACCTCACT**TAA**CTTCG
TTTTTGATTGTGTTGGTGTCTGTTGAGAAAAAGGTAGAATAAACCTTACTACACATTAAAAGTTAAAAGTTCTT
ACTAATAGTAGTGAAGTTAGATGGGCCAAACCATCAAACCTATTTTTTATAGAAGTTATTGAGAATAATCTTTCTT
AAAAAATATATGCACTTTAGATATTGATATAGTTTGAGAAATTTTATTAAAGTTAGTCAAGTGCCTAAGTTTTTA
ATATTGGACTTGAGTATTTATATATTGTGCATCAACTCTGTTGGATACGAGAACCCTGTAGAAGTGGACGATTTG
TTTTAGCCCCCTTGAGAATTTACTTTATGGAGCGTATGTAAGTTATTTATATACAAGGAAATCTATTTTATGTCTG
TTGTTTAAAGAGAATTGTGTGAATCATGTAGTTGCAAATAAAAAATAGTTTGAGGCAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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FIGURE 1055

MKNEIAAVVFFFTRLVRKHDKLKKEAVERFAEKLTLILQEKYKNHWYPEKPSKGQAYRCIRVNKFQRVDPDVLKA
CENSCILYSDLGLPKELTLWVDPCEVCCRRDGVSEPCWPDQSQTPDLVIRPPWPPKALDYRREPLRPASSFLIMYG
EKNNAFIVASFENKDENKDEISRKVTRALDKVTSYHSGSSSSDEETSKEMEVKPPSSVTAAASPVYQISELIFPP
LPMWHPLPRKKPGMYRGNGHQNHYPVPVFGYPNQGRKNKPYRPIPTWVPPPGMHCDRNHWINPHMLAPH

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FIGURE 1056

AGGTAATGATTAATCTGTCAGGCACAAAAGGGATTGTTTTGGGGATTTCGGGGTTCTAAGTCGCAGATTCAAACAA
ATAGCAGCGAACAGGGAATGACAGTTCCACCAGAAGACGATTAAGCCACAGCCTCTAATTGGAACGGCATTGTGA
CAGTCAGAGACTCTTACCAGACATCTCCAGGAATCTGTGAGCCATTGTCAAAACGTCCATTTTCATCTGGCTGTG
AAAGTGAGGACCACAACAGGTAGGTATTGGTAGAAACAGGAGTCCTCAGAGAAGCCCCAAG**ATG**CAGCCTGAGGG
AGCAGAAAAGGGAAAAAGCTTCAAGCAGAGACTGGTCTTGAAGAGCAGCTTAGCGAAAGAAACCCCTCTCTGAGTT
CTTGGGCACGTTTCATCTTGATTGTCCTTGGATGTGGCTGTGTTGCCCAAGCTATTCTCAGTCGAGGACGTTTTGG
AGGGGTCATCACTATCAATGTTGGATTTTCAATGGCAGTTGCAATGGCCATTTATGTGGCTGGCGGTGTCTCTGG
TGGTCACATCAACCCAGCTGTGTCTTTAGCAATGTGTCTCTTTGGACGGATGAAATGGTTCAAATTGCCATTTTA
TGTGGGAGCCCAGTTCTTGGGAGCCTTTGTGGGGGCTGCAACCGTCTTTGGCATTACTATGATGGACTTATGTC
CTTTGCTGGTGGAAAACCTGCTGATCGTGGGAGAAAATGCAACAGCACACATTTTTGCAACATAACCCAGCTCCGTA
TCTATCTCTGGCGAACGCATTTGCAGATCAAGTGGTGGCCACCATGATACTCCTCATAATCGTCTTTGCCATTTT
TGACTCCAGAACTTGGGAGCCCCCAGAGGCCTAGAGCCCATTGCCATCGGCCTCCTGATTATTGTCAATTGCTTC
CTCCCTGGGACTGAACAGTGGCTGTGCCATGAACCCAGCTCGAGACCTGAGTCCAGACTTTTCACTGCCTTGGC
AGGCTGGGGGTTTGAAGTCTTCAGAGCTGGAAACAACCTTCTGGTGGATTCTGTAGTGGGCCCTTTGGTTGGTGC
TGTCAATTGGAGGCCTCATCTATGTTCTTGTCAATTGAAATCCACCATCCAGAGCCTGACTCAGTCTTTAAGGCAGA
ACAATCTGAGGACAAACCAGAGAAATATGAACTCAGTGTCAATCAT**GTAGT**GGCATGCTCAGCTCTGGATTTCAG
TCAGTTTGGGATTCTCTTCAGAAAGATGGCATCTAAGTGTCTGTGTTCTTGTAAGCCTGAGGTGGAATCCACCCA
GTTTTGTCTGCTAGCCATATGGGACATCTAATTGGAAAAGCATCTGCATAAAAGTTTGGAAACAATGACCACTTC
TCTACCATTGTCCCCACCCCCACCCCCAGAATAACGCTGACTGTCCCCTGAAACAGCCTTCTCTCCTGCCCTGT
TTATTTTCATCTCGATGGGAATTCTTGCTAGGTAAGCACTAATAACTCGGCATCTTGACGATAGTCCCATTGGG
TGGTTTTCAGCTGCACTATCTGTATGAAATGGTGTCAACAAAACCCTTTTCTTCAGTATCGACAAAGATTACATTC
TGAGTACCAACCAAACCCCTAAATTGAAAGACAAAACCTATGGTTTTCAGTCAACATATTTCATGAATTAGGGAGCTAA
TGGGTTAAGCTTCCAGTTCCCGCTATGCTACTGGATTGTATATAAATACTGATATTCTCCAACCTAGTGGTGTAG
GGAGCAAGAGAATGCAGCTGGAAGGCACAAGGGGAGGACATTGTGGCATTTCAGAACTGCAGGAGACAAGATGAA
TTTGAGAAGCCAAATGGAATTTTTAATGGAAACCATTTATCAGATTAATCTCTTGCTCTCCTGCATTTTAGAGGA
CACCAATTAATTTCTGGTCTTTAGTATATAATAACCTAAAATACCATTGTAACCTCAGTCATGAAAAATACATC
ACTCTGTCTTTTAGCTCAAATGTATTTTCCCTAATTGCCCACTTGAGAACAGACATTTGACAAGTTATATCAACG
ACTGTGCTTGTCCATTATTTTACACATGCCCTAGAAGCCAAAACCTGAAAGCCACTGGATCCTGGTCTAGCTGAAT
CTTCAGAGTGGGAGGTCTCCAAAAGATATTACCTTATTGGGCTTAACAATTCACAAGGCACTTTCACACCCATT
ATCTAATTTAATCCTCATAATGACTATGTGAGGCAAAATGCCACATTGCCCATTTTTCAGATAAAGAAACAAAATC
TTAGGGAAGATAAGTTGAGTTGTCCAAGAGCACACTGAAAGTTGAATGTTATCTAATGCATTCTCTACCTTTCA
GAAGATCAGTAGCTGGCTGAGAATCTTTGCCAAATCTTCCTTGCTAGCCAGAAGTGAATTTGGCAGCTTCTAGAA
TATGTACACCTCTGGACAAAATGTTCTCAATCTTAAGATACAAAGACCCTCATTGTCTGGGTCTATTCCACAC
TTACTGAGTACAGATGAAGGAAAGTGGTAGCAATTTAATCATAACTTTTCAATTGTCTGAAAAACATTATGAGAAGG
CCTCCCTTCTAAGCCACCTCTGGTCTTGCTAAGTCTTGATCTTGCTTCCTGCCAGCACCAACATTACATTCAG
GGGATTTCTCTGGCTCAGTCTTTTCCCCTTGAAGTTCTCTAATAGATGTTACTTTTGACAAAAGATCGCCTATG
AGTTACAAGCACCAGGGGATGCTCTACATCAAGGGATGCACCTTCAGTCAAACCTGTCAAAAAGCCCAGAAATCCC
AAAGGCATTAGGTTTCCCAACTGCTTTGTGCTGATATCAGAACAGCAGAAATTAAATGTGAAATGTTTCTGATGA
CTTATGTTCTACAATCTATGGACATACGGGATTTTTTTTTCTTGCTTTGAAGCTACCTGGATATTTCTATTTGA
AATAAAATTGTTTCGGTCATTGTT

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FIGURE 1057

MQPEGAEKGSFKQRLVLKSSLAKETLSEFLGTFILIVLGCGCVAQAILSRGRFGGVITINVGF'SMAVAMAIYVA
GGVSGGHINPAVSLAMCLFGRMKWFKLPFYVGAQFLGAFVGAATVFGIYYDGLMSFAGGKLLIVGENATAHIFAT
YPAPYLSLANAFADQVVATMILLIIVFAIFDSRNLGAPRGLEPIAIGLLIIVIASLGLNSGCAMNPARDLSPRL
FTALAGWGFVFRAGNNFWWIPVVGPLVGAVIGGLIYVLVIEIHHPEPDSVFKAEQSEDKPEKYELSVIM

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FIGURE 1058A

CGGGGAGCCGGCGGTTATCTGGGCGGCGGAGCGCTCACAATGTGGCAGGAGACAGAAAAGATAAGATGCTCCCA
AGTCCCTTGCGAGCTCTCTTCAGAAGAAAAATCACTAGTGCTCTGCTCTTGCCATAATACCAAACCTTTTTGACTC
ATGCTTTGGTGCTGCAACACTGGAAGAATTGCACACAGTTTCCAGGAATATCTTTTTTTCATTTGAGTGATTCTT
TGTGGATGAGAAAAGATTTGAGTCTTAATAATTACCTTGTTTTAAAGCTATTTCTTTATAGTCTGAACTGTTTAA
TAAATTGGGCCACTTACCA**ATG**AGCCACACAGCCAGTTCTTGTCAGGAGCTGGTTGAAAAGTGTGCTGTGCATGT
AGCAGGAATGGCACAAGAAGATAGCCGTCGTGGTCAAGTGCCATCTTCCTTTTATCATGGTGCCAAACCAAGAACT
TGACCTGTCCACCAAAGTGTACAAAAGGGAATCAGGAAGTCCTTATTCTGTGTTAGTGACACCAAGATGAGCAA
ACCGCATCTCCATGAAACAGAAGAAGAGCCATATTTTCAGGGAGACAAGAGCAGTGTCTGACGTGCATGCTGTTAA
GGAAGACCGGGAGAATTCTGATGACACAGAGGAGGAAGAGGAAGAAGTCTCTTACAAAAGGGAGCAGATCATAGT
GGAGGTAAACCTTAATAATCAAACATTAAATGTATCTAAAGGGGAAAAGGGTGTCTCTTCTCAGTCCAAAGAGAC
TCCTGTTCTTAAGACAAGCAGTGAGGAGGAAGAGGAAGAGAGTGAGGAAGAGGCCACAGATGACAGCAATGACTA
TGGAGAGAATGAAAAGCAGAAGAAAAAGGAGAAGATAGTAGAGAAAGTCAGCGTTACACAAAGGAGAACCAGGAG
AGCTGCCTCTGTTGCCGAGCTACCACTTCCCTACTCCAGAAGTACAAGAGGTCTGAGGAAGAGTGTAGAGCC
ACCTAAGCGTAAGAAGCGGGCCACAAAGGAGCCCAAAGCACCAGTCCAGAAAGCTAAGTGTGAAGAGAAAAGAGAC
TCTGACCTGTGAGAAGTGCCCCAGGGTATTTAACACTCGCTGGTACCTGGAGAAGCACATGAACGTTACTCATAG
GCGCATGCAGATTTGTGATAAATGTGGCAAGAAGTTTGTCTGGAAAGTGAGCTGTCCCTTACCAGCAAAACAGA
CTGTGAAAAAAACATTAGTGTGTTTCTGTAAACAAATCGTTCAAGAACTCTGGTCCCTTATGAACATATCAA
GATCGTCCATGGATATGCAGAAAAGAAATTTTCTGTGAAATTTGTGAGAAGAAATCTATACCATGGCTCATGT
GCGGAAACACATGGTTGCACACACAAAAGACATGCCATTTACATGCGAAACCTGTGGAATAATCATTCAAACGCGAG
TATGTCACTCAAGGTGCATCCTTGAGCATTCTGGAGAGAAGCCCTTTAGATGCGAGAAGTGTGACGAAAGGTT
TCAGTACAAGTACCAGCTACGCTCCACATGAGCATTATATTGGGACAAAACAGTTTATGTGCCAGTGGTGTGG
CAAGGATTTCAACATGAAGCAGTACTTCGACGAACACATGAAAACACACACTGGAGAGAAACCTTTATCTGTGA
AATCTGTGGCAAAAGCTTACCAGCCGCCCAACATGAAGAGACACCGCAGAACTCACACAGGCGAGAAGCCCTA
TCCATGTGATGTGTGTGGCCAGCGGTTCCGCTTCTCGAACATGCTTAAGGCCCAAGGAGAAGTGCTTTCCGGT
GACCAGCCCCGTGAATGTGCCACCTGCTGTCCAGATCCCACTTACAACTTCCCCAGCCACCCAGTTCCCTTCTGT
GGTGAACACAGCCACAACCCCAACCCCTCCAATCAATATGAATCCTGTAAGCACTCTTCCCCCTCGGCCCATCCC
CCACCCCTTCTCACACCTGCACATCCACCCACACCCCTCACCACCCACACCCTTCCCATCCCTCCAGTCCCTCA
CCTCCCCGCCACCTCCAGCTCTCTTTAAGAGTGAGCCTTTAAATCATAGAGGCCAGAGTGAGGACAACCTTTCTGCG
GCACCTGGCAGAGAAGAACAGTTTCAGCACAGCATCAT**TAA**CATCCGTCTCCTTAGTGTGTTCTCCAGGAGACAG
TCCCCATGTGTGAGCGTGCACAGAGGGAGTGGTGAGCATTTCCTTAGTTCTCAGACTCTCCTCCGCCTCTACCA
AGAGCTTCGCCAGTGTCACTGAATCAACAGATCCAAGGGAATGAACAAGAAGACTACCTTGAGCTCACAGAGGGA
CTGTCTATCTAAACCAGGGGAACCACTGAACATAAGCCCAATTTGCTTGCAATTTTCTGATGACTTTTATAAGTTTC
AAATACTCAGACTTGTGGAATTTTATAATTTTATATCAGCTGATGAGGTATGCTTGCTTTTATATCCCAGACTTC
TCCTCAAAGAGGGGATAGGCCTGGTTTCCTTTGTACTAATCGGGAAGGCTGTGAGATTAATCCAGAGCATTAATT
GTATCACTGTGTATGGTAAGGAATCTTTTTCAGCTTTTGGTGCCAGCTACAGAGTTGAGCTGGCCATGTTTCACA
GTATATCAAGCATTATAGAGAAAGACAGAAATTTTCTTCTTTGTGTAGCTCTCCTAACGCACTCTTTATTTTACT
ACAGAAATTATTTTAGAGTTTTTGTATAGACTTCTTTGGTAGTCTGTTTCTAAAATGAAATGTATTTCAATAAGC
AGTGTAATTTTTTTCAGTGTAGCTGAACCTATGTTGTAAAATAGAAAAAAATTTTTATAATCATCAAAATGTGATT
CTTAAAGATGCATATAACTTCTATAATTCAAAGCTATTCTTACATCCGTACAACTCAAAGGTGCTTCAGAGACT
AGATGTATCTGAGAGGGTCTCCAGACCAGGTTACTGCAAAAATGAGGTTTTGCTTTTCAGGATTTGGCGTAAATAC
TTGGTAGTTTTGACATCTCTGCTTAACACTCAAGAGAGGCTCCCTAATGTGCTCCTGTCTCCATGTTCTGCTTG
GCTTCGTTAGTGCAATACATGAAATGATTTGCAGGGGATGGGGCCTTTTCCAGGGAAGTCACCTAAAGCTTGCAT
GTTTTGAAAATTTGAATAAGGCTGTTTGTGACAGGAGGAGGAAGTAGTGAGATCATTTTCATCTCAGTCACGTC
TGTTTCTCACTTCCCTTAGGAATTGTGTTGATGTTTAACTTTTATGGGATGACAAATTGAAATCGCTCATTTTGA
GGTTGCTTTATTTTTCTAGAATTGTTATAAGAAGCTAAAATAGTAACTTAAAATCACAAACATGACATTGCTGA
TAGTGGCTGAGAAATTCAGATGAGAAGACAAATTGGTTATGAATTTTGAATATCTATTATATGTAATGTGGA
TATGTTACAACCTTGAGCTATTTTAAACAGTTTAAATATAGTGAGGGAAAACCTCCTAAGTTTTACTGCCCTGT
CCTCTGCAATTATGTAATACCAGCATTCTTAGGCGATAAAGAGAGCAGCACCTCTAGTACCTTTAGGCAGATTA

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FIGURE 1058B

CTTTTTCAAGTTTGGGGAACCTTCAAAAGACCATAATCAACCAGGAGCTTATTATAGGAAAGGCTGAACAGAAGGG
CTAGTGTATTGATTACACTTAACAGATCATATTTATCCAGACTCAGTATAGCTTAAATTTTTGTATTTCTTTATC
TGAGAGAACTGAGTTCCAGGCTAAATCACTTACCTCCCACCCCTCTCCAATTTTTTTTTTAAGAGACAAGGTC
TTGCTATGTTGCCAGGCTAGAGTGCAGTGGCTATTACAGGTGCAGTTATAGCACACTACAGCCTCCAACCTCTT
GGGTTCAGCAACCCTGCCTCAGCTAACCAAGTAGCTGGGACTACAGGTGCATGCTACCATGCCCAGTCCATTTT
TTAATCTTGAAATTTCTTCATTTTTCTTTCTTCGGTTTCTTAAATCTTTGCCTGAATCAGAACGCTGGCTTTTA
TTTATTTTTTTTATTTTTAATATTAATGTGCAGATATGCTTCGAGCACTTTTCTAATAATGAGCTCTGTGGTAA
GAAAAATGAACCTCTTCAATTGAGATTAAGTCCATATTTTTCAAACATCACGTTCTCTATTGGCTTTTTGGTTT
AGTGTCTTCTAAATTTCTCCTTCTGATTTTGCCTGTCTTATATAATGAGCATAGGAAAATTTTGAATGAGGCAG
AAAAGTATATCAAGACATACTTCCTGGTTTTGGATGTAAGTTTTAAAGAATGGTATTTTTAATATTTGTACACAT
TCTTTGAGCACCCAGGTACCCAAGCCAATAAGGAAAGTTAATTCCTTGATATGACTGTTATATCTTTAGTGGTT
GTCTCCCTCTCCCTCCACAGTCTCCTTGGCATTCCATGACAAGTTTGTCAACCTACACTTTTATATAGACATGTC
ATTATTTTCATGGTCAAGCCTGTAGTATTAATGATTTTTTTTAAAGATGTAACTGTGCTTAGTTAATTGGTTA
TATTTTGTTCGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGGCAGAGTCTTGTTCTGTTGCCTGGGCTGGAGTG
CAGTGGCGTGATCTTGGCTCACTGCAACCCCCGCCCCCGGGTTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGT
AGCTGGAATTACAGGCATGCGCCAGCACGCCCGGCTAAGTTTTGTATTTTTGGCAGAGATGGGGTTTCACCATAT
TGGCCAGGCTGGTCTCAAACCTCTGACCTTGTGATCCGCCCACCTCAGCCTCCGAAAGTGCTGGGATTACAGGCG
TGAGCCACCACGTCCAACCTGCCTTATTTTGTCTGAATAAATTTACAGTATTGGGCAGCAATTCTGGATTCTAGA
CTTGAGACCACAGAATCAACATTTTCATGAGGTTGTACTGTAATTATACACTGGAATATTCAGGTAGTCATCTTT
GATTTTTTCATTCAAGTAAATATAGCCATAAGAAAATATCTGCTATACAGGAAAACCAGTATTAAGCAAATACCAC
CATCCTTAACAGAAACAAAAATATATATATATATTATTTTTTAAAAATTAGCATTGTCATACAGTACAATTCTTAG
TGAAGTGTATTGTGGAACAATTTAGAACTTCCTTTTTTTCCCTAGATTAAGGATACTTTCCCTTGACTTGAGAC
TTGTGGTCTTCAGGAAAACCTACTCAGAATATAATGACTCCTCATCAGTATCATATTGTATATAAATAATGAAATG
CATTAGAATATTCACAACATTGAACCCAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCGCTCCAG
CCTGGGCAACAGAGCGAGACTCCATCTC

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FIGURE 1059

MSHTASSCQELVENC AVHVAGMAQEDSRRGQVPSSFYHGANQELDLSTKVYKRESGSPYSVLVDTKMSKPHLHET
EEQPYFRETRAVSDVHAVKEDRENSDDTEEEEEEEVSYKREQIIVEVNLNNQTLNVSKGEKGVSSQSKETPVLKTS
SEEEEEEESEEEATDDSDNDYGENEKQKKKEKIVEKVSVTQRRTRRAASVAAATTSPTRTTGRRKSV EPPKRKKR
ATKEPKAPVQKAKCEEKETLTCEKCPRVFNTRWYLEKHMNVTHRRMQICDKCGKKFVLESELSLHQQTDC EKNIQ
CVSCNKSFKKLWSLHEHIKIVHGYAEKKFSCEICEKKFYTMAHVRKHMVAHTKDMPFTCETCGKSFKRSMSLVH
SLQHSGEKPPRCNCDERFQYKYQLRSHMSIHGHKQFMCQWCGKDFNMKQYFDEHMKTHTG EKPFICEICGKSF
TSRPNMKRHRRTHTG EKPPCDVCGQRFRFSNMLKAHKEKCFRVTSPVNVPPAVQIPLTTSPATPVPSVNTATT
PTPPINMNPVSTLPPRP IHPF SHLHIHPHPHHPHLP IPPVPHLPPPPALFKSEPLNHRGQSEDNFLRH LAEKN
SSAQHH

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FIGURE 1060A

GC GGGG CACTTT GAAGAATCACGTGTGTTGAGGCCCTCTTAAAGAGATAGGCACCTACTTTTCCCTCCACCCTAA
ACACCGCCCTGAGGGCGGCGGCGACCGTGGAATTGCAACTGCTCAGGGGCAGGGCTTGCCCCAGCGCCGAGTAG
TGGCAACGGCGTGTTGCGTCGGGGGTGCCTGGGAGCCTGGAGTCCCGGGGGCCTGAAATCGGCAGCTTCCCGGG
CAGACACTCTCTCCCTCAGGAAGAGGTGCCGCCGAGTCAGCGCGGGGCAGTGTGAGCGCCCCGAGGTGCTTTCTC
AGTTGAGGAGAGGTGGGGTTACAGGGGCACAGGTGACAGGGCCGGAGAAAGATGAGCAGCCCCGGGGCGGCGGCGT
CGGGAGCGGGAGGCGGCAGCGAGGAACCCGTGGGGGCCGGAGCAACAAGCGGAGCGCGGGGAACCGGGCCGCCA
ATGAAGAGGAAACGAAAAACAACCCAAATTGAACATTCAAATAAAAACTTTGGCAGATGATGTGCGTGACCGAA
TTACAAGTTTTAGAAAATCTACTGTCAAAAAAGAAAAACCTCTTATTCAACATCCTATTGATTCTCAAGTCGCGA
TGAGTGAGTTTCTGTCAGCTCAGCCATTATATGATGAACGATCTTTGAATTTGTCAGAAAAGGAAGTATTGGATC
TCTTTGAAAAAATGATGGAGGACATGAACCTTAACGAAGAGAAAAAGCTCCTTTACGAAACAAAGACTTTACCA
CCAAACGTGAGATGGTTGTCCAGTATATTTCTGCCACTGCCAAATCTGGTGGGCTGAAAAACAGCAAAACATGAAT
GCACCTGTCTTCACAAGAATATGTTTCATGAATTACGATCGGGTATATCAGATGAGAACTTCTTAATTGCCTAG
AATCCCTCAGGGTTTCTTTAACAGCAATCCGGTCAGCTGGGTAAACAACCTTTGGCCATGAAGGTCTTGGACTCT
TATTGGATGAGCTGGAAAAGCTTCTGGACAAAAAACAGCAAGAAAATATTGACAAGAAGAATCAGTATAAACTTA
TTCAATGCCTCAAAGCATTATGAATAATAAGTTTGGATTACAAAGGATTCTAGGAGATGAAAGAAGTCTTTTAC
TATTGGCAAGAGCAATTGACCCCAAACAACCCAAACATGATGACTGAAATAGTAAAAATACTTTCTGCTATTTGCA
TTGTTGGAGAAGAGAACATTCTAGATAAACTTTTAGGGGCTATAACAACAGCAGCAGAAAAGAAAATAACAGGGAAC
GATTTTACCAATTGTGGAAGGTTTAGAAAATCAGGAAGCCTTGCAATTACAGGTGGCCTGCATGCAGTTTATAA
ATGCCCTTGTCACCTCTCCTTATGAGCTTGATTTTCTGAATACATTTAAGGAATGAATTCCTCCGTTACAGGACTAA
AAACAATGTTACCAGATCTAAAAGAAAAAGAGAATGATGAGCTTGATATTCAGTTGAAAGTATTTGATGAAAACA
AAGAAGATGACCTAATGAATTATCACACCGTCTCAATGACATTCGAGCAGAAATGGATGATATGAATGAAGTCT
ACCATCTTCTATATAATATGCTGAAGGACACTGCTGCTGAAAATTACTTCTTATCTATTCTACAACATTTTTTGC
TTATCAGAAATGATTATTATATCAGGCCACAATATTATAAAATAATTGAGGAATGTGTTTCACAGATAGTGCTAC
ACTGCAGTGGTATGGATCCAGACTTCAAATACAGGCCAAAGATTAGACATCGATTTAACTCATCTGATAGATTCTT
GTGTGAACAAGCGGAAAGTTGAAGAAAGTGAACAAAAAGCTGCAGAGTTTTCAAAGAAGTTCGATGAAGAATTCA
CAGCTCGACAGGAAGCTCAAGCAGAGCTTCAAAAAAGAGATGAGAAAATCAAAGAAGTTGAAGCAGAAATCCAGC
AACTTCGAACCCAGGCACAAGTACTCTCAAGTTCATCAGGAATTCAGGTCTCTCTGCAGCACCTCCATTGCCAG
GTGTAGGGCCGCTCCACCACCACCCGCGCCACCTCTACCCGAGGAGCTCCTCTTCTCTCCACCACCTCCTT
TACCTGGAATGATGGGGATACCACCACCACCCACCACCTTTTATTGGGGGACCTCCTCCACCACCACCCC
TTGGAGGAGTTCCTCTCCCCAGGAATATCACTTAATCTACCTTATGGAATGAAGCAGAAAAAATGTATAAAC
CTGAAGTGTCATGAAGAGAATCAATTGGTCAAAGATTGAACCCACAGAATTATCTGAGAACTGTTTCTGGTTAA
GAGTCAAAGAAGACAAGTTTGAGAATCCAGATCTCTTTGCCAAATTGGCATTGAATTTTGCTACTCAGATAAAAG
TTCAAAGAAGCAGAGAAGCATTAGAAGAAAAGAAGACTGGGCTACAAAGAAGAAAGTGAAGAAGTGAAGATTT
TGGATCCCAAAACAGCTCAGAATCTGTCCATCTTTCTGGGATCATATCGCATGCCATATGAAGACATAAGAAACG
TTATTCTGGAGGTTAATGAAGACATGCTGAGTGAGGCTTTAATTCAGAACCTTGTGAAACATCTTCTGAGCAGA
AGATACTCAACGAATTAGCAGAGCTTAAGAATGAATATGATGACCTCTGTGAGCCTGAACAATTTGGAGTTGTGA
TGAGCTCTGTGAAAAATGTTACAGCCTCGTCTCAGTAGTATCCTGTTCAGCTCACATTTGAAGAACACATAAAACA
ACATCAAACCAAGCATCATAGCAGTAACCTTTGCCTGTGAAGAACTGAAGAAAAGTGAAGCTTTAACAGACTTT
TAGAGTTAGTTCTTCTTGTGGAACTACATGAACTCAGGCTCAAGAAATGCCAGTCTTTGGGATTTAAGATCA
ACTTCTTTGTAAAGATCAGAGATACTAAATCAGCGGATCAAAAAACAACCTTTTGCATTTTATTGCCGACATTT
GTGAGGAAAAATATCGAGATATCCTAAAATTTCTGAAGAACTGGAACACGTAGAAAAGTGCAAGCAAAGTTTCAG
CTCAAATTTCTCAAGAGCAACCTTGATCAATGGAACAACAAATTGTTTCATCTGGAACGTGACATCAAGAAATTC
CCCAAGCAGAAAAATCAACACGATAAGTTTGTGGAAAAGATGACCAGCTTTACAAAGACTGCCCGAGAACAGTATG
AAAAACTCTCCACCATGCACAACAACATGATGAAGCTCTATGAGAATCTTGGAGAATACTTCATTTTTGACTCAA
AGACAGTGAGCATAGAAGAGTTCTTTGGTGATCTCAACAACCTCCGAACCTTGTGTTTGGGAAGCAGTGAGAGAAA
ACAATAAGAGAAGAGAAATGGAAGAGAAGACCAGGAGGGCAAACTTGCAAAAGAGAAAGCTGAACAAGAAAAGT
TAGAACGCCAGAAGAAAAAGAAACAACCTCATTGATATAAAACAAGAGGGTGATGAGACTGGTGTGATGGATAATC
TTCTAGAAGCCCTACAATCAGGTGCAGCATTCAGAGACCGTCGAAAGCGGATTCCAAGGAATCCAGATAACAGAC

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FIGURE 1060B

GAGTACCTTTGGAAAGGTCACGCTCTCGCCACAATGGAGCTATCTCATCTAAGTGATTCCCTGATGCCAAAGAATA
TGAAAAATATTTAAGTAAAAACAAAATGATGCATTTTGAGAAGAACAAAGTGTGCACTCAGCGGCTGGAAAGGAAA
TAAGTGCATTTCTGCAAAGATCAAGATAAGCTGGATGAAGTAGTGTGCATTTGTAACTACTATTGCAAGACTCCTC
CCACAATTATTTCTAATCTGAACACAGTTATCAGGATTACAAAATGTGTTCCATTTTAGTGTAAGATGTGTATCA
TTTGTAAATGTGTGTGACCTGACTGTGATGATGGAAGTGTAAAGAAATTGAAGAGTTCTAAGGCTTTCAAAAACAC
TCAGTCAAAAATTTAAAATCTTAAATGTGTAAGTCACCCCCACCAAAAACAAAAGAGAAGAAAAAGAATAGAAAG
AATTATCCAGTGTGAGCTTCCAATCCCTAGTACATATATAATAGAAAAGGGCCAAGAAAAATATGCATCTTGATT
TGGAGAGAGGCTAATATTATGCACACTGTAAGAGAAGCCATTTTGGAAATTCACGAAAGTACTGCTCCACCCAG
TTGAGTTATTTAGAAATTTTATCTCAAGTGAAAGCTGATGGATTATCTGCTTTGGCTGAAATTAACCTTATCATT
AGTCTAGCTAGCATTTTCTAGCATGATATTGCAAGCACTTCTCATTGCTAAAAATAAATAAACCAAGTTTAACCGA
ATCAGTTAGGGAAAGTGATTTAACTTTATTTAAAGAGGTATTTTCTAATTATGCACAGATATCTACTTTATACA
AATACTTTATATGGCTATTTTTGAGAAAACCTTCACATTTTAAATGTTTATGCTAGGGATGAACCTGGAAAAATTCT
ATTACGTTTATTTAGATTTCAAAGGCAAATATTGATTCCATGCTCTGTGGTTTATTTCTTTTTTCTATTGCTTC
TTTTCTCCCTTGAGTCCCTTGAAGGCAGGGAAATAGACTTCTAGAAAACCTGAGAGGAAAAAGAATTCTTTTTTACA
GGAGGCAGCAGAAAACCTGTCTGAAAGGTCAATTGTTTTATCTCCCTTCCACTCTCTTTCCAATTTCACTTTGGT
GGTCTGAAGAAGAAAAAGAAATTTTATGTATGTATGTGTAATATGTGTATATATTTCTATCTCTTGCTACAATA
ATTCCAACCTAAGTGAACCTTCTTCTCAATTATCATCATACTTACTTACCTTATATTAACAAATTAAGATGATGCTG
CCAAAACAAGTCTAGCAGGGAAAACAGGTTCTACATTTTTCTTAAATAAATTAGGGAGTAAAAGTTATACTTAAC
TTGTCTGTCTATTATTTTAAAATATGCATTGAAATAATGTGGTATAACTTCTCTGGAGTGCAATTTTAAAGTCTAA
TTCATGCAGATGATTGATTGTGATTATTGTAAGAAATTTCTTACATGTATATTTCTTATGTTAGAAAATACTGTT
TCTACTCATTCAAAGCACATTGTAGATATTCAGAGAGAAGAACAATGGCTGGCTTGGCAAATCCCCATCTGAGA
TAAAGTAAACAAGTGACCAGCAGCCACAGATAATTCCTTTATATAGATGTATAATGATTCAAACCTGCTGCCTTT
GCCTCCAGTGCATCCTTACTTAGGTATTATACTTCTTTAAAAAGCTCTGAAGCTGCTACAATAGAAAAATCAAAA
AGGGTAACAGTATCTGAAATTTACAGTCTTATCCGATCTGAAAACACACATACACAAATGCACACACATGCACA
CACACATTTCAAGGACATAGCAGTAACACTGTTTTTTAACAACAACAAAAGTTTAGGTTCTAATTTATGTAAATA
CCTAGTATGTGATTTTTGACTTTACAAAGTCTTTCTTTCTGAAATCTTCGTGGTATGGCTTTTTTAATCTTT
TGACAGCTTATCAGTCTGTAGGAGAATGATCTTGAAATGTAAACCCTGACTAAAATTTGGGAGCATATGCCTTGC
TATATTATCAAGCTGGTCAAGGTAGAAATACTGATATGTATCATCACCTTTTCCAGATACAACTTGCCTTATTT
TCTAGTTTGTGAACAAGAACGAATGAAGTACTATTATTGATACTTACTTATATATTTTTATTTAGAGCAATCCC
ACATGCTTTTCACAAACATTAACAAAAAACCTTTCAAGGTCCTTCATGAAGTTCCAATAGTTGAGTGAGTTAA
AAGGTTTGTTCAGATTGTGAATGGTCTGCTCTAGCCATTTGCAGTTTGTGTTTAGATGATTGGAAAGTATA
TCACCAAAAAAGTATATAGTGACATTTTTTAGTATGAAACCAATTACACTAAGGTCTTTTGTGGCCATATTAC
TGCCACACATGAGAAGCACCATTTATGCAGATTTTCTTCAGAATATTTTAAAAGGTACAGAATCCTTAAAAATAT
TAACAACCTAATTGCATCCATTATCTCCTTTGGCTGCTGTAACAAATTACCACCAATAATATGATGGCTTAACACA
ACAGAACTTATTTGCTTACATTTTTGAAGGGCAGCAAAGCCATGGCTCCCTCCAGAGGCTCTAGAGGAGAATCT
TTCCTTGCCACGTCCACCTTTTGGTGGCTATTGGCATTTTTTGGCTTATGGCCACATTTCTCTTTCTGCTGTGTC
TTCACATCACCTCCTCTGTATACCTAATCTGCCTCTGCCTCTGTTAATAAGGATCCTTATGATGACTTTTTAGG
GACTACCCAGATTACTCCAGGATAATCTCCTCACCTCATGAGTCTTAACCTAATTACATCTGCAAGGCCCCCTTC
TCCAAATAAGATAAATTCATGGTTTTGGGGATTAGGATGTGGCTATGTCTTTTAGGAAGCCACTCTTAGCCCCACC
AGAGTCTGCCCTTTGGCCCAAAATTTATGTCTGTCTCATGTGTAAAAGACATTCATCCCATCCTAACATTACCAA
AAGTCTCAACCCATTATATCAATCCTAAGTCCAAAATTTCAATTCAAATATCATCGGTTCAAAGTTCCAAAGCTT
ATCATTTAGATCATCTAAATCAGGTATGAGTGAAACTCTGGGTATGGTCTTTCCTGAGGCCAAATCCTCTTCCCTC
TGAGAACCAGTGAAACAGAAAAGTTAATCTGCTTTCAAATTACAATGGTGGGAACAGGCATAGGATAACAGTTAC
AGACATTTCTGTCTCAAAAAGGAGAGAATGGAATTTGGAATGGAGTCTCCTGTCCCAATCATTTTTCAAATCTAG
CCAGGCAAATTTCTGTTCTATTTCAAGGCCTGGCAGTAATCCTCTTTCTCAGGGCTCCACCCTTTGGGCCTGTAG
CTCTTCTTTCTTGACTATGGATTGGGCCTCTGCCTCTGTGCCTATGGGTTGCACTTCTTCTCTGTTCCACAC
TTGGGCCTCTGCCTCTGTACCTGCAGCTCTGCTCTCGGGATGGTGCTTCCTTTATCTTGAAGGGTGGCACATGTT
TGCAGCTGAGAAGTTTTATCAACGGGTTTCTACCTGTAGAATTCTGGCAGTCTCACAATCTTCTTTTCAATTTTTT

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FIGURE 1060C

TCTGTCTCTGTCCCTTTTAGGCCAGTTGGAAGTGTCTCTGATGGTAGAACATTCTCAAAAATCTTGTGGGTCTT
CTACGTATGTCACATTGATTCACACATTTCAGAAAAGAGGGTCCTCACAGATTTTTCTGAACAACCCCATCTCTA
TTCTTGGCTTCTGTTGAAACAGTCAAATAAATCCACAAGTTAATGCCTAACCTCTTCAGCACTAGCCAAAGGTG
TCAAGACACACCCTTGGGCTTATCTACAGAGCACACTTTTCTAACAGTGAATCTCCTAATTTTAGCATCTTTTTT
TTTTTTTTTACAATCATTCCAGATTGTGAATTCAGGCTCAGAATTACCCAGTCATCAGATACTGATTCCTTTTGT
CCACTTATATAGTTATTTTCTCTTTAAAAAAAATTTTTTTTAAATGTATTAGAGATGAGGTCTCACTCTGTCACC
CAGGCTGCAGTGTAGTGGTGCAAACATAGCTCCCTGTAACCTCAAACCTCCAGGCTCAAGGGATCCTCCTGCATC
AGCCTTCCAAGTAGCTGGGTCTACAGGTGCATACCACCATGCCTGGCTAATTTTTTGCATTTTTTTGTAGAGACT
TGATCTTGCTATGTTGTCCAGGCTGCTCTCGAACTCCTAGCCTCAAGCAATCCACCCATCTTGGCCTCCTAAAGT
GCCGGATTACAGGTGTAAGCCACCATGCCCAGCCTGTTTTGTCAATGTATCTGTTTTCTGTCTTATTTTACTATA
AGCACTAAGAAGAACTAAGCTATATCTCTAACACTAGACTTGAAAATTTCTCAGCTAAACATCCAAGTTCATC
ATTTATTCAACTTTTTCACACTACTGTAGTAGACAATTTAGATAGATAAACTTTTTGCCACTATATGACAAGGATT
CCCTTCTTCCATTTTCCAATAAAATCTTCATTTCTTCTAAACCATCACTAGAAATGCCTTTAACATTACATACT
ACTACCATCTGGTAAAGGCAATCTAGTTTTTCTATCACATCCACCAAAATTCTTCTAGTCTCTACCCATTATCC
AATTCCAAAGCCTTTTTTACATTTTAAGACATTTGTTACAGAAGTACCCAATCCGTCCAGTTCCACAATCTGCA
TTAGATTCCCATGGCTGCTGTAACAAATTACCCTCTAGCCCAGTGGCTTAAAACAATAGAAATTTATTATCTTGT
TGTTTTGGAGGCCAAAAGTCCAAAATTGAGGGGTGGCAGGGCTGAACGTCTTCTGGAGACTCTAAGGGAAACAC
TCTTCCCGTGTCTTCCAGTTTCTTGTGGCTGCCATCATTCTTGGTTTGTGACTGCATCTCCCTCTCCTCTGTCT
TCACATCACTTCCCCTCTGTATATATAATCTACCTCTGCCTCTCTCTTATAAGGACACTTGTGACGGGACTTAGG
GCCCATCCAGATTACCCATGATAATTCCCTTATTCCAAGATTCTTAATTATATCTGAAAGGACCTTTTTTCCAAA
TAAGGTACTATCACAGGTTCCAGGGAGTAGGATATTGAATATCTTTTTTGGGGAGGGGGCACCATGCAGCTCACT
ACACTATTCAATTGCACACAAATGAATTTTTCACTTTTTAAGATGCATTCTTGGTGCTCAAACCAGATCGAAGTTT
GTCTCTAAAAGCTATTGTCTGCACAGGCTGCTGCATGCTCTGTTGTTAAATGGATGGACAGGCTATTCTAAATTT
TGGTTGATACTTTTGTACTATGGGCAATTAACCTGAAAAAATAATCGATCCCAACTCTGTGCTCTGATGTACC
TCTTCTGCCCCTTTTATGACACCTTTGACCAAATGCCTTCTATGGTTCACAGTGCAGGCACAAAACCTACCTCTGA
TACAGAAGGGTTCTTTACAAGCTTATTTTACATACCGTGAATCCCTCACCTAAAGGGAGAGGTGAAAGCAAAGAC
TGCTTTGAATGGGTATTGAGGGAGATTGTGTCCATACCAAGCCACCCTGAAGAAGTATTTCACTTGCAGTAGAAC
TGTGGATTTGTGCTGTCAATTTACCTTGAATAAACACCTATCTCTAAGCAGGACCAAGAATGACTTGCAATCTA
TATGTAATGGCTACTTACTTATTCAATAAAGTTAAGATATACGT

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FIGURE 1061

MEQPGAAASGAGGGSEEPGGGRSNKRSAGNRAANEEETKNKPKLNIQIKTLADDVRDRITSFRKSTVKKEKPLIQ
HPIDSQVAMSEFPAAQPLYDERSLNLSEKEVLDLFEKMEDMNLNEEKKAPLRNKDFTTKREMVVQYISATAKSG
GLKNSKHECTLSSQEYVHELRSGLSDEKLLNCLLESRLVSLTSNPVSWVNNFGHEGLGLLLLDELEKLLDKKQQENI
DKKNQYKLIQCLKAFMNNKFGQLQRILGDERSLLLLARAIDPKQPNMMTEIVKILSAICIVGEENILDKLLGAITT
AAERNNRERFSPIVEGLENQEALQLQVACMQFINALVTSPYELDFRIHLRNEFLRSGLKTMLPDLKEKENDELDI
QLKVFDENKEDDLTELSHRLNDIRAEMDDMNEVYHLLYNMLKDTAAENYFLSILQHFLLRNDYYIRPQYYKIIIE
ECVSQIVLHCSGMDPDFKYRQRLDIDLTHLIDSCVNKAKVEESEQKAAEFSSKKFDEEFTARQEAQAELQKRDEKI
KELEAEIQQLRTQAQVLSSSSGIPGPPAAPPLPGVGPPPPPPAPPLPGGAPLPPPPPLPGMMGIPPPPPPLLF
GGPPPPPLGGVPPPPGISLNLPGMKQKKMYKPEVSMKRINWSKIEPTELSENCFWLRVKEDKFENPDLFAKLA
LNFATQIKVQKNAEALEEKKTGPTKKKVKELRILDPKTAQNLSIFLGSRMPYEDIRNVILEVNEDMLSEALIQN
LVKHLPEQKILNELAELKNEYDDLCEPEQFGVVMSSVKMLQPRLSSILFKLTFFEEHINNIPSIIVATLACEELK
KSESFNRLLLEVLLVGNMNSGSRNAQSLGFKINFLCKIRDTSADQKTLLHFIADICEEKYRDILKFPEELEH
VESASKVSAQILKSNLASMEQQIVHLERDIIKFPQAENQHDKFVEKMTSFTKTAREQYEKLSTMHNNMMKLYENL
GEYFIFDSKTVSIEEFFGDLNNFRTLFLAUVRENNKRREMEEKTRAKLAKEKAEQEKLERQKKKKQLIDINKEG
DETGVMDNLLEALQSGAAFRDRRKRIPRNPDNRRVPLERSRSRHNGAISSK

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FIGURE 1062

GGCACGAGGAGCGTTTCGTTTGGACTTCTCGACTTGAGTGCCCGCCTCCTTCGCCGCCGCCTCTGCAGTCCTCAG
CGCAGTTATGCCCAGTTCTTCCCGCTGTGGGGACACGACCACGGAGGAATCCTTGCTTCAGGGACTCGGGACCCCT
GCTGGACCCCTTCCTCGGGTTTAGGGGATGTGGGGACCAGGAGAAAGTCAGGATCCCTAAGAGTCTTCCCTGCCT
GGATGGATGAGTGGCTTCTTCTCCACCTAGATTCTTTCCACAGGAGCCAGCATACTTCCTGAACATGGGAGAGTGT
TGTTGCCCGCTGCCCATTCTTATCCCGAGTCCCCCAGGCCTTTCTGCAGAAAGCAGGCAAATCTCTGTTGTTCTA
TGCCCAAAACTGCCCCAAGATGATGGAAGTTGGGGCCAAGCCAGCCCTCGGGCATTGTCCACTGCAGCAGTACA
CTACCAACAGATCAAAGAAACCCCTCCGGCCAGTGAGAAAGACAAAAGTCTAAGGCCAAGGTCCAACAGACTCC
TGATGGATCCCAGCAGAGTCCAGATGGCACACAGCTTCCGTCTGGACACCCCTTGCCCTGCCACAAGCCAGGGCAC
TGCAAGCAAATGCCCTTTCCTGGCAGCACAGATGAATCAGAGAGGCAGCAGTGTCTTCTGCAAAGCCAGTCTTGA
GCTTCAGGAGGATGTGCAGGAAATGAATGCCGTGAGGAAAGAGGTTGCTGAAACCTCAGCAGGCCCCAGTGTGGT
TAGTGTGAAAACCGATGGAGGGGATCCAGTGGACTGCTGAAGAACTTCCAGGACATTATGCAAAAGCAAAGACC
AGAAAGAGTGTCTCATCTTCTTCAAGATAACTTGCCAAAATCTGTTTCCACTTTTCAGTATGATCGTTTCTTTGA
GAAAAAAATTGATGAGAAAAAGAATGACCACACCTATCGAGTTTTTAAACTGTGAACCGCGCAGCACACATCTT
CCCCATGGCAGATGACTATTAGACTCCCTCATCACCAAAAAGCAAGTGTGAGTCTGGTGCAGTAATGACTACCT
AGGAATGAGTCGCCACCCACGGGTGTGTGGGGCAGTTATGGACACTTTGAAACAACATGGTGTCTGGGGCAGGTGG
TACTAGAAATATTTCTGGAAGTAGTAAATTCCATGTGGACTTAGAGCGGGAGCTGGCAGACCTCCATGGGAAAGA
TGCCGCACTCTTGTTTTCTCGTGCTTTGTGGCCAATGACTCAACCCTCTTACCCTGGCTAAGATGATGCCAGG
CTGTGAGATTTACTCTGATTCTGGGAACCATGCCTCCATGATCCAAGGGATTGAAACAGCCGAGTGCCAAAGTA
CATCTTCCGCCACAATGATGTGAGCCACCTCAGAGAACTGCTGCAAAGATCTGACCCCTCAGTCCCCAAGATTGT
GGCATTTGAAACTGTCCATTCAATGGATGGGGCGGTGTGCCCACTGGAAGAGCTGTGTGATGTGGCCCATGAGTT
TGGAGCAATCACCTTCGTGGATGAGGTCCACGCAGTGGGGCTTTATGGGGCTCGAGGCGGAGGGATTGGGGATCG
GGATGGAGTCATGCCAAAAATGGACATCATTTCTGGAACACTTGGCAAAGCCTTTGGTTGTGTTGGAGGGTACAT
CGCCAGCACGAGTTCTCTGATTGACACCGTACGGTCCCTATGCTGCTGGCTTCATCTTACCACCTCTCTGCCACC
CATGCTGCTGGCTGGAGCCCTGGAGTCTGTGCGGATCCTGAAGAGCGCTGAGGGACGGGTGCTTCGCCGCCAGCA
CCAGCGCAACGTCAAACCTCATGAGACAGATGCTAATGGATGCCGCGCTCCCTGTTGTCCACTGCCCCAGCCACAT
CATCCCTGTGCGGGTTGCAGATGCTGCTAAAAACACAGAAGTCTGTGATGAACTAATGAGCAGACATAACATCTA
CGTGCAAGCAATCAATTACCCTACGGTGCCCCGGGGAGAAGAGCTCCTACGGATTGCCCCACCCCTCACCACAC
ACCCAGATGATGAACACTTCTTCTGAGAATCTGCTAGTCACATGGAAGCAAGTGGGGCTGGAAGTGAAGCCTCA
TTCTCAGCTGAGTGCAACTTCTGCAGGAGGCCACTGCATTTTGAAGTATGAGTGAAAGAGAGAAGTCTATTT
CTCAGGCTTGAGCAAGTTGGTATCTGCTCAGGCCTGAGCATGACCTCAATTATTTCACTTAACCCAGGCCATTA
TCATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAAATTTTAATCTATAGTAAAAAC
ATAGTCCTGGAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1063

MESVVRRCPFLLSRVPQAFLOKAGKSLLFYAQNCPEKMMEVGAKPAPRALSTAAVHYQQIKETPPASEKDKTAKAKV
QQTPDGSQQSPDGTQLPSGHPLPATSQGTASKCFLLAAQMNQRGSSVFCKASLELQEDVQEMNAVRKEVAETSAG
PSVVSVKTDGGDPSGLLKNFQDIMQKQRPERSHLLQDNLPKSVSTFQYDRFFEKKIDEKKNDHTYRVFKTVNRR
AHIFPMADDYSDSLITKKQVSVWCSDNYLGMSRHRVCGAVMDTLKQHGAGAGGTRNISGTSKFHVDLERELADL
HGKDAALLFSSCFVANDSTLFTLAKMMPGCEIYSDSGNHASMIQGIRNSRVPKYIFRHNDVSHLRELLQRS DPSV
PKIVAFETVHSMDGAVCPLEELCDVAHEFGAITFVDEVHAVGLYGARGGGIGDRDGVMPKMDIISGTLGKAFCV
GGYIASTSSLIDTVRSYAAGFIFTTSLPPMLLAGALESVRIKSAEGRVLRQHQNRVVKLMRQMLMDAGLPVVHC
PSHIIPVRVADAAKNTEVCDELMSRHNIYVQAINYPTVPRGEELLRIAPTPHHTPQMMNYFLENLLVTWKQVGLE
LKPSSAECNFCRRPLHFEVMSEREKSYFSGLSKLVSAQA

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FIGURE 1064

GGCACGAGGGTTGACCCCTTGTTGCCAGAGAGGCTCCACCCGCCGGCACCTGCATTGCTAGGCAAGTCGCACGGCC
ATAGCTGTGGACTCTCTTGTGGCTGAGGAAGTATTGCCCCGTGTTGCTAGGGAGATGGCACCCCCGGCAACCAG
GAGTAGACTGCCCTTGTGTTTCTGACAGCTGCAGTCAGCCTTCCCCAGGGGCTTGACTGCGGCTGGGGGAACA
GCCTGTTGATGTAAATGATGAACACTACTCCCTGCTAGGGTTGTCCCCTAGTCGTCACAACTGCCATTCTGTT
GTGGGGGTAGTGACACCCCCACGGAATTTGTTACCACTGCCCTAATAACCGTGCCCTGACCTCCAGCTGCTAGA
GAGAGGATGTCCCCCTAGTAAAGCCAAGCAGGAATTGAAGGTTTTTCTAAATCTGCTCGGTCTCACTCCTAAAG
GATGGCTCCCCCTCCTGTCATCAGAGGCCACCAAGGCTTCATATGGGCCAGTGTTCCTCACTGCTGGGGCTGTGCA
CATGAGTGATGAGGGAGCCACTGTATTGCTAGAGGTGACACTTCTCCAATAATCACTGCGACCAGGAAAAAAGCC
CCTTCCTAAAAGCCTTTCTAAACATCCTAGGCATTGTTGCTAAGGAATGCCTTTTCCTTAGCAACAAAGATCATG
GGGACCCCACTGGCGCCTGGAACATCTCCCTAGCAACCGTGAAGCACCTTGTTATTAGGGATGATAACCACAACCT
TCCCTGGCAACTGCAGTGTCCGACAATTTAGAAGGGACCATCCTTGGCGGCTTCTCTGAATATACTGAGTTTGGT
TGCTAAAGGACTCATAGCTTAGCAACCATAGCCCTTCAAGGCTTTTCATGGCTGTGGCGGGCCCCATTAGGTACC
AAAAGAAGAAGAACCCCATTTGTCACTGAAGTGTACCAACCCAGCCACCCACCTTCTACCTACAGGCACCCCTCT
GGGCCACCCCTCCCTTGCTGCCCTAGCAAGTCTGACAGCCAGAGGGCCATTGCCTGGCCAGGATCCCTTCCCTAGC
ATCCGGGGCTGGGACACTAGCAGGCGTCGGGAGGGGGCTGGCTGAGCTGCATGCTGTCCCCCACCTCATCCT
CCACCCCCCAGTCCGAGAAGGCGGCTTCCCTGGAGTATGACTATGAGACCATCCGCAACATCGACTGCTACAGC
ACAGATTTCTGCGTGCGGGTGCAGCATGCGGTACTGGAACATGACGGTGAGTGGTGGCTGGCGCAGTAT
ATCTACAAGAGCGCACCTGCCCGTTCTATGTCCTGCGGAGCGCCTGGACCATGCTGCTGAGCGCCTACTGGCAC
GGCCTCCACCCGGGCTACTACCTGAGCTTCTGACCATCCCGCTGTGCTGGCTGCCGAGGGCCGGCTGGAGTCA
GCCCTGCGGGGGCGGCTGAGCCCAGGGGGCCAGAAGGCTGGGACTGGGTGCACTGGTTTCTGAAGATGCGCGCC
TATGACTACATGTGCATGGGCTTCGTGCTGCTCTCCTTGGCCGACACCCTTCGGTACTGGGCCTCCATCTACTTC
TGTATCCACTTCTGCGCCTGGCAGCCCTGGGGCTGGGGCTGGCTTTAGGTGGGGGAGCCCCAGCCGGCGGAAG
GCAGCATCCCAGCCCACCAGCCTTGCCCCGAGAAGCTCCGGGAGGAGTAAGCTGTACGACGCTCCCTCTGCCA
GCTGGTCCCAGGAATTCTGTGAACCAGGCTGCTGTCTCCTCCCAGAAAGAGTCCTTACCTTGGAGAGGGTCCCTG
GAGAGAATTTCTCTTCCCCAGCTAAATACCCCTGCCTGCAACTGAAGCAGACCCGGGGGTGTCTCCCTGCCCTC
TGCCAGAGGGCCACCTCCACTCCTACAAAATCAAAGTATTGTCCAGACAAGAGTCACTGGCCCCCTGCTCCAGCTT
CTGGGTATCCAGAGAGCACTGCATTCCCCAAAACGGAAGGGGCCCTGGGCAGTGGGTTTTGGGCAAATCCCT
TTCTTTGCATCCACAATGTGGGGTTCGAGCTTGGGGGCAGGTCTGGGAGTGGGAAGCCTCTTCTTGTGTCTTT
CGCTCCACTTTTAGCTCATCGCACCAATATTGCAGACTTGGAAGGAAGCATAAGCTTCCCATTTCACAAAGGGGA
AACTGAGGTGCGGGTGCAGCGGCTGGGGACGGCCGTCCCATGGCTTCATCTGAGCCACCTCGGGACCCAGCA
CTCCTGGCGCCCTCTTCTCATCGCTTGGCCTATGACAGGTACACCGTGTGTAATCTTTCCAATAAAGTGTGCA
CAAAGAAAAAAAAAAAAAAAAAACGGCAGCCCTGGGCGGCTGGGAGCACGGACGGGGCGCCCGCGCAGCTGCCTC
TCGTGCTCACCGCCTGTGGGCCGCGGCGCTGGGCTGGAGCTGGCTTACGTGCTGGTGTCTGGTCCCAGGGCCGC
CGCCGCTGGGACCCCTGGCCCGGGCCTTGCACTGGCGCTGGCCGCCTTCCAGCTGCTCAACCTGCTGGGCAACG
TGGGGCTCTTCTGCGCTCGGATCCCAGCATCCGTGGCGTGATGCTGGCCGGCCGCGGTCTGGGCCGGGGCTGGG
CTTACTGCTACCAATGCCAAAGCCAGGTGCCGCCACGCAGCGGACACTGCTCTGCCTGCCGCGTCTGCATCCTGC
GTCGGGACCACTGCGCCTGCTGGGCCGCTGCGTGGGCTTCGGCAACTACCGGCCCTTCTGTGCTGCTGC
TTCATGCCCGCGGCGTCTGCTCCACGTCTCTGTGCTGCTGGGCCCTGCACTGTGCGCCCTGCTGCGAGCCCACA
CGCCCCCTCCATGGCTGCCCTCCTCCTGCTTCCCTGGCTCATGTTGCTCACAGGCAGAGTGTCTCTGGCACAGT
TTGCCCTTGGCCTTCGTGACGGACACGTGCGTGGCGGGTGCAGTGTGTGCGGGGCTGGGCTGCTCTTCCATGGGA
TGCTGCTGCTGCGGGGCCAGACCACATGGGAGTGGGCTCGGGGCCAGCACTCCTATGACCTGGGTCCCTGCCACA
ACCTGCAGGCAGCCCTGGGGCCCCGCTGGGCCCTCGTCTGGCTCTGGCCCTTCTGGCCTCCCCATTGCCCTGGGG
ATGGGATCACCTTCCAGACCACAGCAGATGTGGGACACACAGCCTCCTGACTCCAGGAAGAGCCAGAGCTGTGCA
GGGAGGAAGGGGTGAGAGGGGGGCCCCACACCTAGACTCAGTAAGGAAGTCGGGTTGACCTTAACATCTGCAT
TGGACAACCTCACCCCTTCTTGGCCTTGGCCCTGCCCGCTACACTCCTACGTGTCCAGGGCTTGGGCCGTGAC
TTAGGCAGAGGAGTGCAGAGGAGGTCTGGCAGGGGCTGCTCAGGCCGCTAGCTGCCCTTTGCCAGGTTAATA
AAGCACTGACTTGTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1065

MSVPHPHPPPPSPEKAASLEYDYETIRNIDCYSTDFCVRVRDGMRYWNMTVQWWLAQYIYKSAPARSYVLRSAWT
MLLSAYWHGLHPGYYSFLTIPLCCLAAEGRLESALRGRLSPGGQKAWDWVHWFLKMRAYDYMCMGFVLLSLADTL
RYWASIYFCIHFLALAAALGLGLALGGGSPSRRKAASQPTSLAPEKLREE

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FIGURE 1066

AAAGAACCGCACACCACAGACTCCCTCCAGCTCTTTGTGTGTGGCTCTCTCAGGGTCCAACAAGAGCAAGCTGTG
GGTCTGTGAGTGTTTATGTGTGCTTTTATTCACTTCACACTTATTGAAAAGTGTGTATGTGAGAGGGTGGGGTGT
GTGTGTCAAAGAGAGTGAGGAAGAGAAGGAGAGAGAGATCAATTGATTCTGCAGCCTCAGCTCCAGCATCCCTCA
GTTGGGAGCTTCCAAAGCCGGGTGATCACTTGGGGTGCATAGCTCGGAGATGCAGTCCCCCTGGAAAATCCTTAC
GGTGGCGCCTCTATTCTTGCTCCTGTCTCTTCAGTCCCTCGGCCTCTCCAGCCAACGATGACCAGTCCAGGCCAG
CCTCTCGAATGGGCACACCTGTGTAGGGTGTGTGCTGGTGGTGTCTGTAATAGAACAGCTTGCTCAAGTTCACAA
CTCGACGGTCCAGGCCTCGATGGAGAGACTGTGCAGTACCTGCCTGAAAACTGTTCTTGAAAACACCTGCTA
TTTAGTCATTGACAAGTTTGGATCAGACATCATAAACTGCTTAGCGCAGATATGAATGCTGATGTGGTATGTCA
CACTCTGGAGTTTTGTAAACAGAACTGGCCAACCATTGTGTCATCTCTACCCTCTTCCCAAGGAGACATGGAA
ATTTACACTACAGAAGGCAAGACAAATTGTCAAGAAGTCCCCGATTCTGAAATATTCTAGAAGTGGTTCTGACAT
TTGTTCACTCCCGTTTTGGCCAAGATCTGCCAGAAAATTAAATTAGCTATGGAACAGTCTGTGCCATTCAAAGA
TGTGGATTACAGACAAATACAGCGTTTTCCCAACACTGCGGGGCTATCACTGGCGGGGAGAGACTGTAATGACAG
CGACGAGTCAGTGTAACCCAGGTAGAAGGCCGAACAACCTGGGATGTCCATCAGGATTCAAACCTGTAATGGCATTG
GGGTGTCGATCCAAAAGATGGAGTTCCATATGAGAAGAAATTCTGTGAAGTTACAGCCCAGGGGAATCATTTT
GCTGGGAGACTCAGCTGGGGCTCATTTTACATCTCTCCTGAATGGATCACAGCGTCGAGATGTCTTTGAACTC
TTTCATCAATCTACCAACAGCCCTTACCAACGAGCTTGACTGGCCCCAACTCTCTGGTGCTACAGGATTTCTGGA
CTCCACTGTTGGAATTAAAGAAAAATCTATTTACCTTCGCTTATGGAAAAGAAACCACTGTAATCACAGGGACTA
CCAGAAATATTTCAAGAAATGGTGCATCTTCCCGAAACCTGAAGAAATTTATAGAAAGCTTGTCTAGAAAACAAGGT
GTTGGACTATCCCGCCATCGTTATATATGCCATGATTGGAAATGATGTCTGCAGTGGGAAGAGTGACCCAGTCCC
AGCCATGACCACTCCTGAGAACTCTACTCCAACGTCATGCAGACTCTGAAGCATCTAAATTCCCACCTGCCCAA
TGGCAGCCATGTTATTTTGTATGGCTTACCAGATGGAACCTTTCTCTGGGATAATTTGCACAACAGATATCATCC
TCTCGGCCAGCTAAATAAAGACATGACCTATGCGCAGTTGTACTCCTTCCTGAAGTGCCTCCAGGTCAGCCCCTG
CCACGGCTGGATGTCTTCCAACAAGACGTTGCGGACTCTCACTTCAGAGAGAGCAGAGCAACTCTCCAACACACT
GAAAAAAATTGCAGCCAGTGAGAAATTTACAAACTTCAATCTTTTCTACATGGATTTTGCCTTCCATGAAATCAT
ACAGGAGTGGCAGAAGAGAGGCGGACAGCCCTGGCAGCTCATCGAGCCCGTGGATGGATTCCACCCCAACGAGGT
GGCTTTGCTGTTGTTGGCGGATCATTTCTGGAAAAAGGTGCAGCTCCAGTGGCCCCAAATCCTGGGAAAGGAGAA
TCCGTTCAACCCCCAGATTAAACAGGTGTTTGGAGACCAAGGCGGGCAGTGCCTCTCAGGAGCATGCACCCCT
GGGGAGCACAGGGAGGCAGAGGCTTGGGTAACTCATTCCACAAACCCTATGGGGGCTGCCACGTCACAGGCCCA
AAGGACTCTTCTTCAGCAGCATCTTTGCAAAATGTCTTCTCTCAATGAAGAGCATATCTGGACGACTGTGCAAT
GCTGTGTGCTCCCGGGGATCAGTAACCCCTCCGCTGTTCTGAAATAACCTTTCATAAAGTGCTTTGGGTGCCAT
TCCA

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FIGURE 1067

MQSPWKILTVAPLFLLLSLQSSASPANDDQSRPSLSNGHTCVGCVLVVSVIEQLAQVHNSTVQASMERLCSYLPE
KLFLKTTCYLVIDKFGSDI IKLLSADMNADVCHTLEFCKQNTGQPLCHLYPLPKETWKFTLQKARQIVKKSPII
KYSRSGSDICSLPVLAKICQKIKLAMEQSVPFKDVDSDKYSVFPTLRGYHWRGRDCNDSDESVPGRRPNNWDVH
QDSNCNGIWGVDPKDGVPYEKKFCEGSQPRGIILLGDSAGAHFHI SPEWITASQMSLNSFINLPTALTNELDWPQ
LSGATGFLDSTVGIKEKSIYLRWLKRNHCNHRDYQNI SRNGASSRNLKKFIESLSRNKVLDYP AIV IYAMIGNDV
CSGKSDPVPAMTTPEKLYSNVMQTLKHLNSHLPNGSHVILYGLPDGTF LWDNLHNRYHPLGQLNKDMTYAQLYSF
LNCLQVSPCHGWMSSNKTLRTLTSERAEQLSNTLKKIAASEKFTNFNLFYMDFAFHEIIQEWQKRGGQFPWQLIEP
VDGFHPNEVALLLLADHFWKKVQLQWPQILGKENPFNPQIKQVFGDQGGH

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FIGURE 1068

ACAGAGATGGCACTGATGCAGGAAGTGTATAGCACACCAGCCTCCAGGCTGGACTCCTTCGTGGCTCAGTGGCTG
CAGCCCCACCGGGAGTGGAAGGAAGAGGTGCTAGACGCTGTGCGGACCGTGGAGGAGTTTCTGAGGCAGGAGCAT
TTCCAGGGGAAGCGTGGGCTGGACCAGGATGTGCGGGTGTCTGAAGGTAGTCAAGGTGGGCTCCTTCGGGAATGGC
ACGGTTCTCAGGAGCACCAGAGAGGTGGAGCTGGTGGCGTTTCTGAGCTGTTTCCACAGCTTCCAGGAGGCAGCC
AAGCATCACAAAGATGTTCTGAGGCTGATATGGAAAACCATGTGGCAAAGCCAGGACCTGCTGGACCTCGGGCTC
GAGGACCTGAGGATGGAGCAGAGAGTCCCCGATGCTCTTGTCTTCACCATCCAGACCAGGGGGACTGCGGAGCCC
ATCACGGTCACCATTGTGCCTGCCTACAGAGCCCTGGGGCCTTCTCTTCCCAACTCCCAGCCACCCCTGAGGTC
TATGTGAGCCTGATCAAGGCCTGCGGTGGTCTTGAAATTTCTGCCCATCCTTCAGCGAGCTGCAGAGAAATTTT
GTGAAACATCGGCCAACTAAGCTGAAGAGCCTCCTGCGCCTGGTGAACACTGGTACCAGCAGTATGTGAAAGCC
AGGTCCCCCAGAGCCAATCTGCCCCCTCTCTATGCTCTTGAACCTCTAACCATCTATGCCTGGGAAATGGGTACT
GAAGAAGACGAGAATTTTATGTTGGACGAAGGCTTCACCACCTGTGATGGACCTGCTCCTGGAGTATGAAGTCATC
TGTATCTACTGGACCAAGTACTACACACTCCACAATGCAATCATTGAGGATTGTGTGAGAAAACAGCTCAAAAAA
GAGAGGGCCCATCATCCTGGATCCGGCCGACCCACCCCTCAACGTGGCAGAAGGGTACAGATGGGACATCGTTGCT
CAGAGGGCCTCCCAGTGCCTGAAACAGGACTGTTGCTATGACAACAGGGAGAACCCCATCTCCAGCTGGAACGTG
AAGAGGGCACGAGACATCCACTTGACAGTGGAGCAGAGGGGTTACCCAGATTTCAACCTCATCGTGAACCCTTAT
GAGCCCATAAGGAAGGTTAAAGAGAAAAATCCGGAGGACCAGGGGCTACTCTGGCCTGCAGCGTCTGTCTTCCAG
GTTCTTGGCAGTGAGAGGCAGCTTCTCAGCAGCAGGTGCTCCTTAGCCAAATATGGGATCTTCTCCACACTCAC
ATCTATCTGCTGGAGACCATCCCCTCCGAGATCCAGGTCTTCGTGAAGAATCCTGATGGTGGGAGCTACGCCTAT
GCCATCAACCCCAACAGCTTCATCCTGGGTCTGAAGCAGCAGATTGAAGACCAGCAGGGGCTTCTTAAAAAGCAG
CAGCAGCTGGAATTCCAAGGCCAAGTCCTGCAGGACTGTTTGGGTCTGGGGATCTATGGCATCCAAGACAGTGAC
ACTCTCATCCTCTCGAAGAAGAAAGGAGAGGCTCTGTTTCCAGCCAGTTAGTTTTCTCTGGGAGACTTCTCTGTA
CATTCTGCCATGTACTCCAGAACTCATCCTGTCAATCACTCTGTCCCATTGTCTACTGGGAAGGTCCCAGGTCT
TCACCAGTTTTACAATGAGTTATCCAGGCCAGACGTGGTAGCTCACACCTGTAATCCAGAACTTTGGGAGGCC
GAGGTGGGAGGAGCGCTTGAGCCGAGGAGTTCAAGACCAGCCTGGGTATCATAGGGAGACCCCGTCTCTACAAAA
TAAAAAATAATTCACTGGG

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FIGURE 1069

MALMQELYSTPASRLDSFVAQWLQPHREWKEEVLDVVRTVEEFQRQEHFQGKRGLDQDVRVLKVVKVGSFGNGTV
LRSTREVELVAFLSCFHSFQEA AKHHKDVLRLIWKT MWQSQDLLDLGLEDLRMEQRVPDALVFTTIQTRGTAEPI
VTIVPAYRALGPSLPNSQPPPEVYVSLIKACGGPGNFCPSFSELQRNFVKHRPTKLKSLRLVKHWYQQYVKARS
PRANLPPLYALELLTIYAWEMGTEEDENFMLDEGFTTVMDLLEYEVICIYWTKYITLHNATIEDCVRKQLKKER
PIILDPADPTLNVAEGYRWDIVAQRASQCLKQDCCYDNRENPISSWNVKRARDIHLTVEQRGYPDFNLIVNPYEP
IRKVKEKIRRTRGYSGLQRLSFQVPGSERQLLSSRCSLAKYGIFSHTHIYLLLETIPSEIQVFVKNPDGGSYAYAI
NPNSFILGLKQQIEDQQGLPKKQQQLEFQGVQLQDWLGLGIYGIQSDTLILSKKKGEALFPAS

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FIGURE 1070

AGCCTACGCACGAAAGTGACTAGGGAGGAAGGATATTATAAAGTGATGCAAACAGAAATTCCACCAGCCTCCATG
TATCATCATGTGTCATAACTCAGTCAAGCTCAGTGAGCATTCTCAGCACATTGCCTCAACAGCTTCAAGGTGAGC
CAGCTCAAGACTTTTGCTCTCCACCAGGCAGAAGATGACAGACTGTGAATTTGGATATATTTACAGGCTGGCTCAG
GACTATCTGCAGTGCCTCTACAGATACCACAACCTGGATCAGGTCCAAGCAAAACGTCCAGAGTGCTACAAAAT
GTTGCGTTCTCAGTCCAAAAGAAGTGGAAAAGAATCTGAAGTCATGCTTGGACAATGTTAATGTTGTGTCCGTA
GACACTGCCAGAACACTATTCAACCAAGTGATGGAAAAGGAGTTTGAAGACGGCATCATTAAGTGGGGAAGAATT
GTAACCATATTTGCATTTGAAGGTATTCTCATCAAGAACTTCTACGACAGCAAATTGCCCCGGATGTGGATACC
TATAAGGAGATTTCATATTTTGTGCGGAGTTCATAATGAATAACACAGGAGAATGGATAAGGCAAAACGGAGGC
TGGGAAAATGGCTTTGTAAAGAAGTTTGAACCTAAATCTGGCTGGATGACTTTTCTAGAAGTTACAGGAAAGATC
TGTGAAATGCTATCTCTCCTGAAGCAATACTGTTGACCAGAAAGGACACTCCATATTGTGAAACCGGCCTAATTT
TTCTGACTGATATGGAAACGATTGCCAACACATACTTCTACTTTTAAATAAACAACCTTTGATGATGTAACCTTGAC
CTCCAGAGTTATGGAAATTTGTCCCCATGTAATGAATAAATTGTATGTATTTTCTCT

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FIGURE 1071

MTDCEFGYIYRLAQDYLQCVLQIPQPGSGPSKTSRVLQNVAFSVQKEVEKNLKSCLDNVNVVSVDIARTLFNQVM
EKEFEDGIINWGRIVTIFAFEGILIKLLRQQIAPDVDTYKEISYFVAEFIMNNTGEWIRQNGGWENG FVKKFEP
KSGWMTFLEVTGKICEMLSLLKQYC

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FIGURE 1072

CACAACCTAGTCCAGAGCCTCACAGTCCTACTGAACCTCCTGCATGGGGCAGCAGTATTGTGAAAGTTCCGTCTG
GTATATTTGATGTCAACAGCAGGAAAAGTAGCACTGGTAGTATATCAAATGTGCTGTTTTCTACTCAAGATCCAG
TTGAAGATGCAGTCTTTGGCGAAGCTACTAATCTCAAGAAGAATGGTGATAGAGGAGAAAAAAGACAAAAGCATT
TTCCTGAGAGGAGTTGTAGTTTTAGTTCTGAAAGTCGAGCAGGAATGTTGCTTAAGAAGAGTAGTTTGGATTCTGA
ATTCAAGTGAAATGGCTATCATGATGGGAGCAGATGCCAAGATTCTCACAGCAGCATTGACATGTCTAAGACTT
CTCTACTTCATATTGCAAGAACCCATAGCTTTGAGAATGTTAGCTGTCACCTACCTGATAGTAGGACTTGTATGT
CTGAAAGCACTTGGAATCCTGAGCACAGATCATCTCCGGTGCCAGAGATGCTTGAGGAAAGCCAAGAACTCCTTG
AGCCTGTGGTTGATGACGTACCTAAAACCTACTGCAACAGTAGATACATATGAGAGTCTACTAAGTGATAGTAACA
GTAATCAGTCCAGAGACTTGAAAACAGTATCCAAAGATCTGAGAAATAAGAGAAGTAGTTTATATGGTATTGCTA
AGGTGGTTCAGAGGGAAGATGTTGAAACTGGACTAGATCCTTTGTCTCTTTTAGCCACTGAATGTACAGGAGGAA
AAACTCCTGATTCTGAAGATAAGTTGTTTTCTCCAGTTATTGCACGTAATCTGGCTGATGAAATAGAAAGCTATA
TGAACCTAAAAAGTCCCCTAGGTAGTAAATCTTCTAGTATGGAATTACACAGAGAGGAAAACAGAGAGTCTGGCA
TGACTACTGCATTTATTTCATGCTCTAGAGAGGAGATCAAGCCTACCTTTAGATCATGGTTCCACCAGCACAGGAAA
ATCCTGAAAGTGAAAAGAGCTCACCTGCAGTGTCCAGGTCTAAAACCTTTTACTGGGCGTTTCAAGCAGCAAACCC
CCTCTCGAACTCATAAAGAACGTTCAACTTCTTTGTGTCAGCACTGGTGCGTTCTTCGCCACATGGCTCGTTGGGTT
CTGTAGTAAATTCTTTGTGAGGGCTAAAGCTGGATAATATACTCTCAGGGCCCAAGATAGATGTCTGAAATCTG
GTATGAAACAAGCAGCGACAGTAGCCAGTAAGATGTGGGTAGCTGTTGCGTCTGCCTACAGCTACTCAGATGATG
AGGAAGAACTAATAGAGACTACAGCTTCCCAGCTGGCCTAGAAGACCATATTTGGGGGAGAATATATCGCCTA
ACACAAGTATCTCAGGGTTGGTCCCCAGTGAACCTACCCAGAGCAACACAAGTCTTGGCAGTAGCAGCAGTAGTG
GAGATGTAGGAAAACCTGCATTATCCAACAGGTGAAGTTCCATTTCCAAGAGGCATGAAAGGGCAAGACTTTGAAA
AATCAGATCATGGTTCTTCTCAAAATACCAGCATGTCTAGCATCTATCAGAATTGTGCAATGGAGGTTTTGATGT
CCAGTTGTTACAGTGTAGAGCTTGTGGAGCTTTAGTTTATGATGAAGAAATTATGGCTGGATGGACAGCAGATG
ACTCAAATTTGAATACAGCTTGTCCATTCTGTAAAAGCAACTTCTTGCCCTCTTCTCAATATAGAATTCAAAGATT
TGAGAGGTTCTGCAAGCTTTTTCTGAAACCAAGTACCTCTGGTGACAGTTTACAAAGTGGAAGCATTCCATTGG
CAAATGAATCCTTGGAGCACAAACCTGTATCCAGTTTAGCAGAACCTGACTTGATCAACTTTATGGACTTCCCAA
AACATAACCAGATCATAACTGAAGAAACAGGCTCTGCAGTTGAACCAAGTGATGAAATAAAGAGAGCCAGTGGAG
ATGTCCAACTATGAAAATTTTCATCTGTGCCTAATAGTTTATCAAAGCGAAATGTGTCTTTGACTCGAAGTCACA
GTGTTGGAGGCCATTGCAGAATATTGACTTTACCCAGCGACCGTTTCATGGCATCTCAACAGTTAGTCTTCCAA
ATAGTCTGCAGGAAGTTGTGGATCCTTTAGGAAAAAGACCCAATCCTCCCCCTGTTTCTGTGCCCTACTTGAGTC
CTCTAGTACTCCGTAAAGAACTTGAATCTTTGCTAGAAAATGAAGGTGATCAGGTGATTACATACATCTTCTTCA
TCAATCAACATCCAATCATTTTCTGGAACCTCGTTTGGTATTTTACAGCGTTTGGACCTTCCTAGTAACTTGCCAG
GACTTATCCTCACATCTGAACATTGTAATGAAGGTGTACAGCTTCCTCTGTATCTCTGTCCCAGGATAGCAAAC
TTGTGTATATTAGCTGTTATGGGATAATATCAACCTTCATCAGGAACCAAGAGAACCTCTGTATGTCTCATGGA
GGAATTTTAATTCTGAAAAGAAATCATCTCTCTCTGTCAGAGGAACAACAAGAAACAAGCACTTTAGTAGAAACCA
TCAGGCAGAGTATTACAGACAATAATGTTCTTAAACCCATCAACCTACTTTCACAGCAAATGAAGCCAGGCATGA
AAAGACAAAGAGGCATTTGACAATGAATATGGAATTGCATACAATAGTCTGTCTTCAGAGATTCTTGAAAGGTTG
CAGAAAAATTGATGCTCCACCAAGTGCCAGTGTGAGTGGTGACAGGAAGTGTTTTGGAGCGCCTCTCATTTAAATA
GAGATTCACTAGAATGTTGACACACAAGGCTTGGGGATTAGATTTTCATCTGGAACATTCAAGTTTTTTTTTTCC
AAATCGTAAGAACTGGTGAATACGGAATTGAAGTAACTCTTGGGGACAATATATAATGAATTATGATTCATATTG
CATTACCTTGAAATATGAAGTGCCATTTGAATGTCCCAGGGCTTATTAATATTGAAGATTTTCAACCCCTGAACT
GCTTTTTCTGCCTCTGTGGAACCTACTTTGGGATTCTTCAGTATTTGTAGTAGTTTGATAGAAATAATGAGGAAC
CATATTCATTCTAGGCATTGTTTATATTTGAAGTTACTGAGTTTGAGGAATGGCAAATTAATTTGCCTAACCCC
CAAAACAAATGAAATATCTCAATTATAAAAGCAACATGGCCGGGCACGGTGGCTCAGGCCTGTAATCCCAGCACT
TTGGGAGGCTGAGCAAGGTGGGTGGATCACTTGAGGCCAGGAGTTCGAGACCAGCCTGGCCAACACGGTGAGACC
CTGTCTTTACTAAAAATACAAAATTAGCCAGGCGCACCCTGTAGTCCCAGCTACTCAGGCTGAGGCAGGAGAA
TCGCTTGAACAGGAGGCTACAGTGAGTGAGATCACGCCACTGCAACTCCAGCTTGGGTGACAGAGTGAG
ACCGTCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1073

MLLKKSSLDNSNSEMAIMMGADAKILTAALTCPKTSLHLIARTHSFENVSCHLPDSRTCMSSESTWNPEHRSSPVP
EMLEESQELLEPVVDDVPKTTATVDITYESLLSDSNSNQSRDLKTVSKDLRNKRSSLYGIAKVQREDVETGLDPL
SLLATECTGGKTPDSEDKLFSPVIARNLADEIESYMNKSPLGSKSSSMELHREENRESGMTTAFIHALERRSSL
PLDHGSPAQENPESEKSSPAVSRSKTFTGRFKQQTTPSRTHKERSTSLVALVRSSPHGSLGSSVNSLSGLKLDNIL
SGPKIDVLKSGMKQAATVASKMWVAVASAYSYSDDDEETNRDYSFPAGLEDHILGENISPNTSISGLVPSELTQS
NTSLGSSSSSGDVGKLHYPTGEVFPFRGMKGQDFEKS DHGSSQNTSMSSIQNCAMEVLMSSCSQCRACGALVYD
EEIMAGWTADDSNLNTACPFCKSNFLPLLNIEFKDLRGSASFLLKPSTSGDSLQSGSIPLANESLEHKPVSSLAE
PDLINFMDFPKHNQIITEETGSAVEPSDEIKRASGDVQTMKISSVPNSLSKRNVSLTRSHSVGGPLQNIDFTQRP
FHGISTVSLPNSLQEVVDPLGKRPNPPVSVPYLSPLVLRKELESLLNEGDQVIHTSSFINQHPIIFWNLVWYF
RRDLPSNLPLGLILTSEHCNEGVQLPLSSLSQDSKLVYIQLLWDNINLHQEPREPLYVSWRNFNSEKKSSLLSEE
QQETSTLVETIROSIQHNNVLKPINLLSQQMKPGMKRQRGI

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FIGURE 1074

CCGCC**ATG**GGGTCCCTGTTCCGGAGCGAGACCATGTGCCTGGCGCAGCTCTTCCTGCAGTCGGGCACGGCCTACG
AGTGCCTCAGCGCCCTGGGCGAGAAAGGCCTGGTCCAGTTCAGAGACCTCAACCAGAACGTAAGTTCTTTCCAAA
GAAAATTTGTTGGTGAGGTGAAGAGGTGTGAAGAGCTAGAGCGAATATTGGTGTATTTGTTACAGGAAATTAATA
GAGCTGATATTTCCCTTCCCTGAAGGAGAGGCCAGCCCTCCTGCGCCACCCCTGAAACAGGTTCTAGAAATGCAGG
AGCAGTTGCAGAAGCTCGAGGTTGAACTGAGAGAAGTCACTAAGAACAAGGAGAAACTGAGGAAAACTTGCTGG
AACTGATAGAGTACACTCACATGCTGAGAGTGACAAAGACCTTTGTGAAACGCAACGTTGAGTTTGAACCCACTT
ATGAAGAATTCCCTTCCCTTAGAGAGCGATTCTTTGTTGGATTACAGCTGTATGCAGAGGCTGGGAGCAAACTGG
GATTTGTGTCTGGCCTAATTAACCAAGGAAAAGTGAAGCATTGAAAAAATGTTGTGGAGAGTCTGCAAAGGGT
ACACCATCGTGTCTATGCAGAACTGGATGAATCCCTTGAAGACCCTGAAACAGGGGAAGTCATAAAATGGTATG
TCTTTTAAATATCCTTTTGGGGAGAGCAGATTGGCCACAAGGTTAAGAAGATATGTGATTGCTACCACTGCCACG
TGTACCCCTATCCAAACACAGCCGAGGAGCGGAGGGAGATCCAGGAGGGGCTGAACACCCGCATCCAGGATCTCT
ACACTGTACTGCACAAAACCGAGGACTATTTGAGGCAAGTGCTATGTAAAGCCGCCGAGTCTGTCTACAGCCGTG
TGATCCAGGTGAAGAAAATGAAGGCCATCTATCACATGCTGAACATGTGCAGCTTTGACGTGACCAACAAGTGCC
TCATTGCTGAAGTCTGGTGTCCCGAGGCGGATCTGCAGGACCTGCGCCGGGCACTGGAGGAGGGCTCGAGAGAGA
GTGGTGCTACAATCCCTCATTTCATGAATATAATCCCCACAAAGAAACACCCCCCACTCGGATCCGCACCAACA
AATTCACCGAGGGATTTTCAAGACATCGTGGATGCTTATGGAGTGGGAAGCTACAGAGAAGTCAATCCAGCTCTCT
TTACCATCATCACCTTCCCGTTTTTATTTGCTGTGATGTTTGGAGACTTCGGACATGGCTTTGTGATGTTTTTAT
TTGCCCTCTTGTGGGTGTTAAATGAAAATCATCCCAGACTAAATCAGTCACAAGAGATCATGAGGATGTTTTTAA
ATGGCCGGTACATCCTCCTGCTGATGGGGCTGTCTCAGTGTACACTGGCCTCATCTACAACGACTGCTTTTCAA
AGTCAGTCAACCTGTTTCGGCTCTGGGTGGAACGTGTTCGGCCATGTACAGCTCCAGCCACCCACCCGCAGAGCATA
AGAAGATGGTGCTTTGGAACGACAGCGTCGTTAGACACAACAGCATTGTTGCAGCTGGATCCAAGCATTCTGGAG
TGTTCCGAGGCCCTTATCCCTTGGCATTGATCCTATTTGGAACCTGGCCACAAATCGCCTCACTTTTCTAAACT
CTTTCAAAATGAAAATGTCCGTGATTTTAGGAATCATTTCATATGACTTTTGGAGTCATTCTGGGAATATTTAACC
ACTTGCACCTTCAGGAAGAAGTTCAACATTTACCTGGTTTCCATCCCGGAACCTTCTCTTCATGCTCTGTATCTTTG
GATACCTTATATTTATGATTTTCTACAAGTGGCTGGTTTTTTTCAGCAGAAACCTCCAGAGTTGCTCCCAGCATTC
TGATTGAATTTATTAACATGTTTTTATTCCCAGCCAGTAAAACAAGTGGCCTTTACACAGGGCAGGAGTATGTCC
AGAGAGTGCTGCTGGTTGTACAGCATTGTCTGTCCCTGTCTCTTCTTGGGAAAGCCACTGTTTTTGTGTGGC
TTCACAATGGGCGTAGTTGCTTCGGGGTGAACCGGAGTGGCTACACACTTATAAGGAAAGATAGTGAGGAAGAAG
TTTCATTGCTGGGAAGCCAAGATATAGAAGAGGGAAATCACCAGGTGGAAGATGGATGTAGAGAAATGGCGTGTG
AAGAGTTTAATTTTGGAGAAATATTAATGACCCAAGTAATCCATTCCATCGAGTACTGTCTGGGATGCATCTCCA
ACACCGCCTCCTACCTGAGGCTCTGGGCGCTTAGCCTGGCTCACGCACAGTTGTCTGATGTCTGTGGGCCATGC
TGATGCGCGTGGGCCTCCGCGTTGACACCACCTATGGCGTCTTGCTACTGTCTCCCGTTATCGCGCTCTTTGCAG
TTTTGACCATTTTCATCCTTCTGATCATGGAAGGGCTTTCTGCGTTTCTTCACGCCATACGCCTCCACTGGGTTAG
AATTTCAGAACAAATTTCTACGTTGGTGCAGGCACCAAATTTGTTCCCTTTCTCATTTCAGTCTACTTTTCATCAAAGT
TCAATAACGACGACAGTGTGGCAT**TGAT**TCATATTGCTGTAAACCAACAAGCTTTTCAGATTTATGGAGAATGACCATG
TTATAGACTTTCACTTATGTCAGATTTATGATAGGAAAAATCCATCTTCATTACTGCCTTATGACATAGCCAAA
TAATTCGTAAAGATATAC

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FIGURE 1075

MGSLFRSETMCLAQLFLQSGTAYECLSAUGEKGLVQFRDLNQNVSSFQRKFVGEVKRCEELEIRILVYLVQEINRA
DIPLPEGEASPPAPPLKQVLEMQEQLQKLEVELREVTKNKEKLRKNLLELIEYTHMLRVTKTFVKRNVEFEPTYE
EFPSLESDSLDDYSCMQRLGAKLGFVSGLINQKGVEAFEKMLWRVCKGYTIVSYAELDESLEDPEETGEVIKWYVF
LISFWGEQIGHKVKKICDCYHCHVYPYPNTAEERREIQEGLNTRIQDLYTVLHKTEDYLRQVLCKAAESVYSRVI
QVKMKKAIYHMLNMCSDVTNKCLIAEVWCPEADLQDLRRALEEGSRESGATIPSFMNIIPTKETPPTRIRTNKF
TEGFQNIVDAYGVGSYREVNPALFTIITFPFLFAVMEGDFGHGFVMFLFALLWVLNENHPRLNQSQEIMRMFFNG
RYILLMLGLFSVYTGLIYNDGFSKSVNLFSGGWNVSAMYSSSHPPAEHKKMVLWNDSVVRHNSILQLDPSIPGVF
RGPYPLGIDPIWNLATNRLTFLNSFKMKMSVILGIIHMTFGVILGIFNHLHFRKKFNIIYLVSIPELLFMLCIFGY
LIFMIFYKWLVSFAETSRVAPSILIEFINMFLFPASKTSGLYTGQEVVQRVLLVVTALSVPVFLGKPLFLLWLH
NGRSCFGVNRSGYTLIRKDSEEEVSLGSDIEEGNHQVEDGCREMAEEFNFGIILMTQVIHSIEYCLGCISNT
ASYLRLWALSLAHAQLSDVLWAMLMRVGLRVDTTYGVLLLLPVIALFAVLTIFILLIMEGLSAFLHAIRLHWVEF
QNKFYVGAGTKFVPFSSSLLSSKFNNDDSA

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FIGURE 1076

ACCTGGTGCGGGAGGCCCGGGCAGGGAGAAAGTGTGCGGGGCCGGGACAAGCCGGCTCCGAGTGCGGGGCGGGAGG
GGCTGCGCGGCGGGCGGGAGCCCAGAGCCGCGCTAAAGCGGGTCAAGCGTCCTCCTTTTCTCCCCGCCCTTCTC
CTCCTCCTACCTGGGCCTCTGCGTGAGAGACGCGCACCTGGCAACCGGAGGCCGCGTCTCCGCCTTCTCTGCTCGC
GCCTGGCGCCCCGAGCCTGCCCCGGGACCTCCGCCGGAGCCGCGCTCGCTGCAGGCGGCCTCGAGCGCTCTCTCGT
TGATGCCGTTTTTGGAGGTGACCGGCGCGGCGGCCGCTCTATGGTGGGGCCGCGTTAGTGGCTGCGGCTCCGCGGG
ACTCCAGGGCGCGGCTGCGAGGTGGCGGGGCGCCCCGCCTGCAGAACCCTGCTTGCAGCTCAGGTTTCGGGGTGC
TTGAGGAGGCCGCCACGGCAGCGCGGGAGCGGAAGATGTTGGAGCTGAGGCACCGGGGAAGCTGCCCCGGCCCCA
GGGAAGCGGTGTCGCCGCCACACCGCGAGGGAGAGGCGGCCGGCGGCGACCACGAAACCGAGAGCACCAGCGACA
AAGAAACAGATATTGATGACAGATATGGAGATTTGGATTCCAGAACAGATTCTGATATTCCGGAAATTCCACCAT
CCTCAGATAGAACCCCTGAGATTCTCAAAAAAGCTCTATCTGGTTTATCTTCAAGGTGGAAAAACTGGTGGATAC
GTGGAATTCTCACTCTAACTATGATCTCGTTGTTTTTCTGATCATCTATATGGGATCCTTCATGCTGATGCTTC
TTGTTCTGGGCATCCAAGTGAAATGCTTCCATGAAATTATCACTATAGGTTATAGAGTCTATCATTCTTATGATC
TACCATGGTTTTAGAACACTAAGTTGGTACTTTCTATTGTGTGTAACTACTTTTTCTATGGAGAGACTGTAGCTG
ATTATTTTGTCTACATTTGTTCAAAGAGAAGAACAACCTTCAGTTCCTCATTGCTACCATAGATTTATATCATTG
CCCTCTATCTGGCAGGTTTTCTGCATGTTTGTACTGAGTTTGGTGAAGAAACATTATCGTCTGCAGTTTTATATGT
TCGCATGGACTCATGTCACTTTACTGATAACTGTCACTCAGTCACACCTTGTCTATCCAAAATCTGTTTGAAGGCA
TGATATGGTTCCTTGTTCGAATATCAAGTGTTATCTGCAATGACATAACTGCTTACCTTTTTTGGATTTTTTTTTG
GGAGAACTCCATTAATTAAGTTGTCTCCTAAAAAGACTTGGGAAGGATTTCATTGGTGGTTTTCTTTTCCACAGTTG
TGTTTGGATTTCATTGCTGCCTATGTGTTATCCAAATACCAGTACTTTGTCTGCCAGTGGAATACCGAAGTGATG
TAAACTCCTTCGTGACAGAATGTGAGCCCTCAGAACTTTTCCAGCTTCAGACTTACTCACTTCCACCCTTTCTAA
AGGCAGTCTTGAGACAGGAAAGAGTGAGCTTGTACCCTTTCCAGATCCACAGCATTGCACTGTCAACCTTTGCAT
CTTTAATTGGCCCATTTGGAGGCTTCTTTGCTAGTGGATTCAAAAGAGCCTTCAAATCAAGGATTTTGCAAATA
CCATTCCCTGGACATGGTGGGATAATGGACAGATTTGATTGTCAGTATTTGATGGCAACTTTTGTACATGTGTACA
TCACAAGTTTTATCCGGGGCCCAATCCCAGCAAAGTGCTACAGCAGTTGTTGGTGCTTCAACCTGAACAGCAGT
TAAATATATATAAAACCCCTGAAGACTCATCTCATTGAGAAAGGAATCCTACAACCCACCTTGAAGGTATAACTGG
ATCCAGAGAGGGAAGGACTGACAAGAAGGAATTATTCAGAAAAACACTGACAGATGTTTTATAAATTGTACAGAA
AAATAGTTAAAAATGCAATAGGTTGAAGTTTTGGAGATATGTTTCTCTCTGAAATTACTGTGAATATTTAACAAA
CACTTACTTGATCTATGTTATGAAATAAGTAGCAAATTGCCAGCAAATGTCTTGTACCTTTTCTAAAGTGATTT
TTCTGATGTGAACCTTCCTTCCCCTTACTTGCTAGGTTTCATAATTTAAAGAGTCAAACACTATAAAATGAGTAA
GTTGACGATGTTTTAAGATTGCACCTGGCAGTGTCCTTTTTGCACAAATATTTACTTTTGCACCTTGGAGCTGCT
TTTAATTTTAGCAAATGTTTTATGCAAGGCACAATAGGAAGTCAGTTCTCCTGCACTTCCCTCCTCATGTAGTCT
GGAGTACTTTCTAAAGGGCTTAGTTGGATTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1077

MLELRHRGSCPGPREAVSPPHREGEAAGGDHETESTSDKETDIDDRYGDLDSTRDSDIPEIPPSSDRTPEILKKA
LSGLSSRWKNWWIRGILTLTMISLFFLIIMGSFMLMLLVLGIVKCFHEIITIGYRVYHSYDLPWFRTLSWYFL
LCVNYFFYGETVADYFATFVQREEQLQFLIRYHRFISFALYLAGFCMFVLSLVKKHYRLQFYMFATHVTLLITV
TQSHLVIQNLFEQMIWFLVPISSVICNDITAYLFGFFFGRTPLIKLSPKKTWEGFIGGFFSTVVFGFIAAYVLSK
YQYFVCPVEYRSDVNSFVTECEPSELFQLQTYSLPPFLKAVLRQERVSLYPFQIHSLALSTFASLIGPFGGFFAS
GFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVHVYITSFIRGPNPSKVLQQLLVLPQEQQLNIYKP

1215/2825
FIGURE 1078

CGGGAAACGGCAAACAGCGAGATATCCGAGCGAGAGTCCCGCCCTGCATCAGTTTGCGGAACCGCCTTGGTAGAA
GGAGAGAAGGGGAGTGGAGGAAGCACGGGACTGGAGGGACCAAAGTTCCCCGATGGCGGCCAGGGGTGCGCGGC
ATCGCGGCTGCTCCAGCTGCTGCTGCAGCTTCTGCTTCTACTGTTGCTGCTGGCGGGCGGGCGGGCGCGCGCG
GTGGCGCGCGGAGGGCACCAGCGCACACTTGCGGGACATCTTCCTGGGCCGCTGCGCCGAGTACCGCGCACTGCT
GAGTCCCAGCAGCGGAACAAGAAGTGCACAGCCATCTGGGAAGCCTTTAAAGTGGCGCTGGACAAGGATCCCTG
CTCCGTGCTGCCCTCAGACTATGACCTTTTTATTAACTTGTCAGGCACTCTATTCCCAGAGATAAGTCCCTGTT
CTGGGAAAATAGCCACCTCCTTGTTAACAGCTTTGCAGACAACACCCGTCGTTTTATGCCCTGAGCGATGTTCT
GTATGGCAGGGTTGCAGATTTCTTGAGCTGGTGTGACAGAAAAATGACTCTGGACTCGATTACCAATCCTGCC
TACATCAGAAGACTGTGAAAATAATCCTGTGGATTCTTTTTGGAAAAGGGCATCCATCCAGTATTCCAAGGATAG
TTCTGGGGTGATCCACGTCATGCTGAATGGTTCAGAGCCAACAGGAGCCTATCCCATCAAAGGTTTTTTTGCAGA
TTATGAAATTCCAAACCTCCAGAAGGAAAAAATTACACGAATCGAGATCTGGGTTATGCATGAAATTGGGGGACC
CAATGTGGAATCCTGCGGGGAAGGCAGCATGAAAGTCCTGGAAAAGAGGCTGAAGGACATGGGGTTCCAGTACAG
CTGTATTAATGATTACCGACCAGTGAAGCTCTTACAGTGCGTGGACCACAGCACCCATCCTGACTGTGCCTTAAA
GTCGGCAGCAGCCGCTACTCAAAGAAAAGCCCCAAGTCTTTATACAGAACAAAGGGCGGGTCTTATCATTCCCCT
CTTTCTGGTGCTGGCTTCCCGGACTCAACTGTAACTGGAAACTGTGTTGCTCTAACCTCCTCCAGCCCTGCAGC
CTCCCCTTGCACTCATCATTCTGTGTTCTGTGTATACCAAATGATTCTGTTATCTAAAGAAGCTTTTTGCTGGGAA
AACGATGTCCTGAAAATGGTATTTCAATGAGGCATATGTTTCAGGATTTAGAAAACAAGAAGTTAGTTCTATTTAG
CAGGTTAAAAAATGCTGCATTAGAATTAAAGCAAGTTATTTTCTTATTTGTATAATGACACAAAGCATTGGGAGT
CAGACTGCTTGTATATTATCAAACATTTTAAAGAGAATTCTAATAAAGCTGTATTTTACATC

1216/2825
FIGURE 1079

MAAQGCAASRLQLLLQLLLLLLLLLLAAGGARARWRAEGTSAHLRDIFLGRCAEYRALLSPEQRNKNCTAIWEAFK
VALDKDPCSVLPSPDYDLFINLSRHSIPRDKSLFWENSHLLVNSFADNTRRFMPLSDVLYGRVADFLSWCRQKNDS
GLDYQSCPTSEDCENNPVDSFWKRASIQYKSSGVIVMLNGSEPTGAYPIKGFFADYEIPNLQKEKITRIEIW
VMHEIGGPNVESCGEESMKVLEKRLKDMGFQYSCINDYRPVKLLQCVDHSTHPDCALKSAAAATQRKAPSLYTEQ
RAGLIIPLFVLVLSRTQL

1217/2825
FIGURE 1080

GTTCCTCCGGGAGCCCAACACCGTTCCCGCGCGGCCACGATGATCCCTCCGAGCAGCCCCGCGAGGACGGCGTG
GACGGGCTGCCCAAGGAGGCGGTGGGCGCCGAGCAACCGCCCTCTCCTGCATCCACCAGCAGCCAGGAATCCAAG
CTCCAGAACTAAAACGATCACTTTCTTTCAAGACCAAGAGTTTACGGAGCAAAAGTGCTGACAACCTTCTTCCAG
CGAACCAACAGCGAAGACATGAAACTGCAAGCACACATGGTGGCTGAGATCAGCCCCAGCTCCAGCCCACTCCCT
GCTCCAGGAAGCCTGACGTCCACACCCGCCAGGGCTGGTCTGCATCCAGGTGGCAAGGCTCATGCCTTTCAGGAA
TACATCTTCAAGAAGCCCACTTTCTGTGATGTCTGCAACCACATGATAGTGGGAACAAATGCTAAGCATGGACTG
CGCTGCAAAGCCTGTAAGATGAGCATCCACCACAAGTGACAGATGGCCTGGCACCCAGCGGTGCATGGGCAAG
CTGCCAAAGGGGTTTCGGCGTTACTACAGCTCCCCCTTGCTCATTTCATGAACAGTTTGGCTGCATTAAAGAAGTT
ATGCCCATTGCCTGTGGCAATAAGGTGGACCCCTGTCTACGAGACCCTCCGCTTCGGCACCTCCCTGGCCCAGAGG
ACAAAGAAGGGCAGCTCCGGCAGTGGCTCTGACTCACCTCACAGAACCTCTACTTCAGATCTTGTGGAGGTTCTCT
GAGGAAGCCAATGGGCCAGGAGGCGGGTATGACCTAAGGAAACGCAGCAACAGCGTGTTTACATATCCAGAAAAT
GGCACTGATGATTTTCAGAGATCCAGCGAAGAACATAAACCACAGGGATCTCTTTCCAAAGACCCATTACAGATG
AACACCTATGTTGCCTTGTACAAATTTGTACCACAGGAGAATGAAGATTTGGAAATGAGGCCAGGAGACATAATT
ACTCTTTTAGAGGATTCCAATGAAGACTGGTGGAAAGGGAAAATTCAAGACAGAATTGGCTTCTTTCCAGCCAAC
TTTGTTCAGAGACTACAACAAAATGAGAAGATTTTATAGATGTGTTAGAACCTTCATTGGGTGTAAGGAACAGGGG
CAGATAACACTGAAAGAGAATCAGATCTGCGTGAGTTCTGAAGAAGAACAAGATGGTTTTATCAGAGTCCCTCAGT
GGAAAAAAGAAAGGCCTCATCCCCCTTGATGTACTAGAAAACATCTGAATTGCTGGCTCCTCCTCCGTTTGCAGTA
GGCAAGCTCTGCTGCGATGCCTCTGCCTCATCTCACACTGCGTCAACCCAAAGGAGCTGCCGCACTGACCCAGCC
CCCCAGGAAACAGTGAGACAAGAATCAAGTATCTGAGACTGTGGAGTAATAGCCACAAAACAGAGGGCCCCACTGC
ACAGCATATCCAGGCTGCCACAGGTGGGGACGAGGCTGAGAGAGTCAGCAGGCAGAGCCAGATGCCATGCTTGGC
AGCAGCAGTAGGACTATAAACCACAGCTGTCCCCCAGGATCCCACTCCTTTCTGTCTGTGTGGTGTAAGTTAAC
ACACTGGAGTGTGCTCCAGTTTGCAGGGTAGCCAGTGAAGGTTTCAGATCCATGTAGCTAAGTATTATCCTGCT
TCCAGACCTATGTACCAGTACCAATCAGTCAGTGTTCATCACATTTTCAGGCCCCAAGCAATCTCTGTGCAAAGCA
TCAGAAAAGACCTGCTTCCCAGCCCCCAGCATTCCAGTGCTCTCCAGGCTTCCTCTCTTTGTGATTGTGCTGTCCA
GAGTGTCCAGCTTGTTCTTTCTTTCTCTTCAGTCTCTGAGTACATCTGGTGGTGTGCATTAGATGTGAGGGCTA
TGTTGACATGGCATCACCTCCAAGACCTGACCTGCCTAAAGACTGATGACAGGCCATCCTTCCTGCTGTCTTAG
GTACTGGCCTGGGTGACAGAGCAGGACATGAGACATAGATACAGTGGGGAGGAGAAGTGGGGAAGGTGGAGCAG
AGAGTTCTTACTTATTGAAGATTATACAGCCCTTTCGGTTATGAAGTCCCTGCTTGAAGGCAATGGACCTGGGGA
AGAGACTATCACAAAAGTCTCCATTTTCATTTTACATCCTCTCTATTGGAGGCAGCACTTTTCCCTCATGCTGT
CCTATAGGACTCCACTTTGAAGGTTGTGCCTACGTTGCAGGGAACTAGGAACATGGAGGGGAACCAACAACAGCA
TCTTAGAAGAAATGTAGCCAAATTGGAGTCCATTCTTCTTTAGGGCAGTATATGAAATCCTAGCAGATGTAAAT
GGAAAAGAAATCCTAATGCTTCTTCTTCCAGAAAGTAGAGGAACTAGGGGCCCAATTAGCATCATCTAGGGGAATC
TCTATTACTCTGTAATTATACTAATGTTTACAAGAATGCAATATACTGTGATGCCTTCCTACTCAAGCCTCCTAG
CATTCAAACCTCCATCCTATTAGTCATTAACGTGGTTAACTTCAATTCACAATCACCTTGAATCAATGTCAGT
TTGATTTATTTTGTACAGAGCAATAAAATCATTAGAACAATGGTTTTTAAAAGACTTAAGTGGATGCATCCTAT
GCATGTAAGCATTATTTCCCAAACCAAGCATCATTATCTCCATTTATTTCTTTTGTTCGCTCAGTGTGAAG
TTGGGAACTGAGAGGGGATGGCTGCTGGTTTACAGAAGTTTGGATGCCTTACTCTTATCTTAAAGCCAGCATCC
AGAATTTCTCTCCCTCTCTGATGCCACATGCAAAACCAGGTGTACGATGTCAAGATGGATTCTTTGAGAGCCAGGG
TAGATCATATGACTGCCTTTCTGTAAAATTGGATGCCTAGTACAAATGCTCTTTGCCTCTAATTCAGTATTCCAT
TTAATAAAAAACAATACAGTGGCTGGAAAGGAGCATCAG

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FIGURE 1081

MIPPSSPREDGVDGLPKEAVGAEQPPSPASTSSQESKLQKLKRSLSFKTKSLRSKSADNFFQRTNSEDMLQAHM
VAEISPSSSPLPAPGSLTSTPARAGLHPGGKAHAFQEYIFKKPTFCDVCNHMIVGTNAKHGLRCKACKMSIHHKC
TDGLAPQRCMGKLPKGFRRYYSSPLLIHEQFGCIKEVMPIACGNKVDPVYETLRFGTSLAQRTKKGSSGSGSDSP
HRTSTSDLVEVP EEANGPGGGYDLRKRSNSVFTYPENGTDDFRDPAKNINHQGSLSKDPLQMNTYVALYKFVPQE
NEDLEMRPGDIITLLED SNEDWWKGKIQDRIGFFPANFVQRLQQNEKIFRCVRTFIGCKEQGQITLKENQICVSS
EEEQDGFIRVLSGKKKGLIPLDVLENI

1219/2825
FIGURE 1082

GAGCGCCGGCGCGGGACCGAGCTGGCGGCGGGCGGCGCGCGCTTCCGAGGCTTCCTGCTGCTTCTGCCCCGAGCCC
GCGGCTCACGCGCGCCCTCTCCCGTGCCATGGCCCTGCAGGCAGGAGCCGCAGCCGCAGGGCCCCGCCGCCGCTG
CTGGCGCCGTGGCCTCCTATGACTACCTGGTGATCGGGGGCGGCTCGGGCGGGCTGGCCAGCGCGCGCAGGGCGG
CCGAGCTGGGTGCCAGGGCCGCCGTGGTGAGAGCCACAAGCTGGGTGGCACTTGCGTGAATGTTGGATGTGTAC
CCAAAAAGGTAATGTGGAACACAGCTGTCCACTCTGAATTCATGCATGATCATGCTGATTATGGCTTTCCAAGTT
GTGAGGGTAAATTCAATTGGCGTGTTATTAAGGAAAAGCGGGATGCCTATGTGAGCCGCTGAATGCCATCTATC
AAAACAATCTCACCAAGTCCCATATAGAAATCATCCGTGGCCATGCAGCCTTCACGAGTGATCCCAAGCCCACAA
TAGAGGTCAGTGGGAAAAAGTACACGCCCCACACATCCTGATCGCCACAGGTGGTATGCCCTCCACCCCTCATG
AGAGCCAGATCCCCGGTGCCAGCTTAGGAATAACCAGCGATGGATTTTTTTCAGCTGGAAGAATTGCCCGGCCGA
GCGTCATTGTTGGTGAGGTTACATTGCTGTGGAGATGGCAGGGATCCTGTCAGCCCTGGGTTCTAAGACATCAC
TGATGATACGGCATGATAAGGTACTTAGAAGTTTTGATTCAATGATCAGCACCAACTGCACGGAGGAGCTGGAGA
ACGCTGGCGTGGAGGTGCTGAAGTTCTCCAGGTCAAGGAGGTTAAAAAGACTTTGTCTGGGCTTGGAAGTCAGCA
TGGTTACTGCAGTTCCCGGTAGGCTACCAGTCATGACCATGATTCCAGATGTTGACTGCCTGCTCTGGGCCATTG
GGCGGGTCCCGAATACCAAGGACCTGAGTTTTAAACAAACTGGGGATTCAAACCGATGACAAGGGTCATATCATCG
TAGACGAATTCCAGAATACCAACGTCAAAGGCATCTATGCAGTTGGGGATGTATGTGGAAGCTCTTCTTACTC
CAGTTGCAATAGCTGCTGGCCGAAAACCTTGCCCATCGACTTTTTTGAATATAAGGAAGATTCCAAATTAGATTATA
ACAACATCCCAACTGTGGTCTTCAGCCACCCCCCTATTGGGACAGTGGGACTCACGGAAGATGAAGCCATTTCATA
AATATGGAATAGAAAATGTGAAGACCTATTCAACGAGCTTTACCCCGATGTATCACGCAGTTACCAAAAAGGAAAA
CAAAATGTGTGATGAAAATGGTCTGTGCTAACAAAGGAAGAAAAGGTGGTTGGGATCCATATGCAGGGACTTGGGT
GTGATGAAATGCTGCAGGGTTTTGCTGTTGCAGTGAAGATGGGAGCAACGAAGGCAGACTTTGACAACACAGTCG
CCATTACCCCTACCTCTTCAGAAGAGCTGGTCACACTTCGTTGAGAACCAGGAGACACGTGTGGCGGGCAGTGGG
ACCCATAGATCTTCTGAAATGAAACAAATAATCACATTGACTT

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FIGURE 1083

MACRQEPQPQGPPPAAGAVASYDYLVIGGGSGGLASARRAAELGARAAVVESHKLGGTVCNVGCVPKKVMWNTAV
HSEFMHDHADYGFPSCEGKFNRVVIKEKRDAYVSRLNAIYQNNLTAKSHIEIIRGHAAFTSDPKPTIEVSGKKYTA
PHILIATGGMPSTPHESQIPGASLGITSDGFFQLEELPGRSVIVGAGYIAVEMAGILSALGSKTSLMIRHDKVLR
SFDSMISTNCTEELLENAGVEVLKFSQVKEVKKTLGLEVSMVTAVPGRLPVMTMIPDVEDCLLWAIGRVPNTKDLS
LNKLGIQTDGKHIIIVDEFQNTNVKGIYAVGDVCGKALLTPVAIAAGRKLHRLFEYKEDSKLDYNNIPTVVFH
PPIGTVGLTEDEAIHKGIEENVKTYSTSFTPMYHAVTKRKTCKVMKMCANKEEKVVGIHMQGLGCDEMLQGFV
AVKMGATKADFDNTVAIHPTSSSEELVTLR

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FIGURE 1084

CAGAAGCAGCAAACCGCCGGCAAGCCCAGCGAGGAGGGCTGCCGGGGTCTGGGCTTGGGAATTGGCTGGCACCCA
GCGGAAAGGGACGTGAGCTGAGCGCGGGGGAGAAGAGTGCGCAGGTCAGAGGGCGGGCGCGCAGTCCGCGAGGTCC
CCACGCCGGGCGAT**AT**GGGGTGCTGCTGTTTTCTGCTGCTCTGGGCGCTCCTCCAGGCTTGGGGAAGCGCTGAAG
TCCCGCAAAGGCTTTTTCCCCCTCCGCTGCCTCCAGATCTCGTCTTCGCCAATAGCAGCTGGACGCGCACCGACG
GCTTGGCGTGGCTGGGGGAGCTGCAGACGCACAGCTGGAGCAACGACTCGGACACCGTCCGCTCTCTGAAGCCTT
GGTCCCAGGGCACGTTTCAGCGACCAGCAGTGGGAGACGCTGCAGCATATATTTTCGGGTTTATCGAAGCAGCTTCA
CCAGGGACGTGAAGGAATTCGCCAAAATGCTACGCTTATCCTATCCCTTGGAGCTCCAGGTGTCCGCTGGCTGTG
AGGTGCACCCTGGGAACGCCTCAAATAACTTCTTCCATGTAGCATTTCAAGGAAAAGATATCCTGAGTTTCCAAG
GAACCTTCTTGGGAGCCAACCCAAGAGGCCCCACTTTGGGTAAACTTGGCCATTCAAGTGCTCAACCAGGACAAGT
GGACGAGGGAAACAGTGCAGTGGCTCCTTAATGGCACCTGCCCCAATTTGTGAGTGGCTCCTTGAGTCAGGGA
AGTCGGAACCTGAAGAAGCAAGTGAAGCCCAAGGCCTGGCTGTCCCGTGGCCCCAGTCTGGCCCTGGCCGTCTGC
TGCTGGTGTGCCATGTCTCAGGATTCTACCCAAAGCCTGTATGGGTGAAGTGGATGCGGGGTGAGCAGGAGCAGC
AGGGCACTCAGCCAGGGGACATCCTGCCCAATGCTGACGAGACATGGTATCTCCGAGCAACCCTGGATGTGGTGG
CTGGGGAGGCAGCTGGCCTGTCTGTGCGGTGAAGCACAGCAGTCTAGAGGGCCAGGACATCGTCTCTACTGGG
GTGGGAGCTACACCTCCATGGGCTTGATTGCCTTGGCAGTCTGGCGTGCTTGCTGTTCTCCTCATTGTGGGCT
TTACCTCCCGGTTTAAAGAGGCAAACCTTCCTATCAGGGCGTCTGT**TG**ACTCGCCTTGCCACATCTGTGTCTCTGGA
ACCCAGGACCTCTGGACCTCAGGTTCCCAAGACTTCAGTCTTGGTCTGCTCAGGAATTGAAGATGTAAGGAATTG
AAGATAGGAGAGATACCTTGAAAAAGTAGAGAACAGTCATGAGGCAGCTTTCATCACACCCTTTTAACATTTATC
TAAAAGAATTTAAATTCTTTTTCAAAAATTACACTACAAGTTTATAAGCCCAAATGGCTCTGTGAAATCAGAAGT
GCAAAGGTGTGCAAACCTGTATCTGAAGACCTACCAGGGACAAGCAGGTAAGAGCTGATGTGAGTGTGTGTGATG
GGATCTGTAAGGAACCTGGAACACACATGTCCTATCCAAAGGAATCAGCTGCAGCTGCTTGTGTCAAGTATAAAG
TCAGGACCTGGCTTGGCTTTAAACGTTTTTCAAGAAAACCTGGAAATCTGGATTTTCAGCGAACATGCCTGATTTT
AAAAGGTTGACTCAAGTTTTTACAAAATACTATGTGGGACACCTCAAATACATACCTACTGACTGATGACAAACC
CAGGAGTTTGTGTGTCTTTTATAAAAAGTTTGCCCTGGATGTCATATTGGCAGTTGGAGGACACAGTTTCTATTG
TAAATTTGGATTTACGACTGAAGAAGGACATTTTCTCTTTAAAGAAAGTTAGGTTATAAGAAACAGAGGCGTCT
CACATTTTACTTGGTGTAATTAATAAA

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FIGURE 1085

MGCLLFLLLWALLQAWGSAEVPQRLFPRLRCLQISSFANSSWTRTDGLAWLGELQTHSWSNDSDTVRSCLKPWSQGT
FSDQQWETLQHIFRVYRSSFTRDVKEFAKMLRLSYPLELQVSAGCEVHPGNASNFFHVAFQKIDILSFQGTSWE
PTQEAPLWVNLAIQVLNQDKWTRETVQWLLNGTCPQFVSGLLESKGSELKKQVKPKAWLSRGPSPGPGRLLLVCH
VSGFYKPKPVWVKWMRGEQEQQGTQPGDILPNADETWYLRATLDVVAGEAAGLSCRVKHSSLEGQDIVLYWGGSYT
SMGLIALAVLACLLFLLIVGFTSRFKRQTSYQGV

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FIGURE 1086

CTCTCTCTCTATCTCTCTCAGAAATGACAATTCTAGGTACAACCTTTTGGCATGGTTTTTTCTTTACTTCAAGTCGT
TTCTGGAGAAAAGTGGCTATGCTCAAAATGGAGACTTGGAAGATGCAGAACTGGATGACTACTCATTCTCATGCTA
TAGCCAGTTGGAAGTGAATGGATCGCAGCATTCACTGACCTGTGCTTTTGAGGACCCAGATGTCAACACCACCAA
TCTGGAATTTGAAATATGTGGGGCCCTCGTGGAGGTAAAGTGCCTGAATTTTCAGGAACTACAAGAGATATATTT
CATCGAGACAAAGAAAATTCTTACTGATTGGAAAGAGCAATATATGTGTGAAGGTTGGAGAAAAGAGTCTAACCTG
CAAAAAATAGACCTAACCACTATAGTTAAACCTGAGGCTCCTTTTGACCTGAGTGTCACTATCGGGAAGGAGC
CAATGACTTTGTGGTGACATTTAATACATCACACTTGCAAAAGAAGTATGTAAAAGTTTAAATGCATGATGTAGC
TTACCGCCAGGAAAAGGATGAAAACAAATGGACGCATGTGAATTTATCCAGCACAAAGCTGACACTCCTGCAGAG
AAAGCTCCAACCGGCAGCAATGTATGAGATTAAAGTTTCGATCCATCCCTGATCACTATTTTAAAGGCTTCTGGAG
TGAATGGAGTCCAAGTTATTACTTCAGAACTCCAGAGATCAATAATAGCTCAGGGGAGATGGATCCTATCTTACT
AACCATCAGCATTTTGTAGTTTTTCTCTGTGCTCTGTTGGTCATCTTGGCCTGTGTGTTATGGAAAAAAGGAT
TAAGCCTATCGTATGGCCCAGTCTCCCCGATCATAAGAAGACTCTGGAACATCTTTGTAAGAAACCAAGAAAAA
TTTAAATGTGAGTTTCAATCCTGAAAGTTTCCTGGACTGCCAGATTATAGGGTGGATGACATTCAAGCTAGAGA
TGAAGTGAAGGTTTTCTGCAAGATACGTTTCCTCAGCAACTAGAAGAATCTGAGAAGCAGAGGCTTGGAGGGGA
TGTGCAGAGCCCCAACTGCCCATCTGAGGATGTAGTCGTCACCTCCAGAAAGCTTTGGAAGAGATTATCCCTCAC
ATGCCTGGCTGGGAATGTCAGTGCATGTGACGCCCCATTCTCTCCTCTTCCAGGTCCCTAGACTGCAGGGAGAG
TGGCAAGAATGGGCCTCATGTGTACCAGGACCTCCTGCTTAGCCTTGGGACTACAAACAGCACGCTGCCCCCTCC
ATTTTCTCTCCAATCTGGAATCCTGACATTGAACCCAGTTGCTCAGGGTCAGCCCATTCTTACTTCCCTGGGATC
AAATCAAGAAGAAGCATATGTCACCATGTCCAGCTTCTACCAAACCCAGTGAAGTGTAAGAAACCCAGACTGAAC
TTACCGTGAGCGACAAAGATGATTTAAAAGGGAAGTCTAGAGTTCCCTAGTCTCCCTCACAGCACAGAGAAGACAA
AATTAGCAAAACCCCACTACACAGTCTGCAAGATTCTGAAACATTGCTTTGACCACTCTTCTGAGTTCAGTGGC
ACTCAACATGAGTCAAGAGCATCCTGCTTCTACCATGTGGATTTGGTCACAAGGTTTAAAGGTGACCCAATGATTC
AGCTATTT

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FIGURE 1087

MTILGTTFGMVFSLLQVVSGESGYAQNGLDLEDAELDDYSFSCYSQLEVNGSQHSLTCAFEDPDVNTTNLEFEICG
ALVEVKCLNFRKLQEIYFIETKKFLLIGKSNICVKVGEKSLTCKKIDLTITIVKPEAPFDLSVIYREGANDFVVTF
NTSHLQKKYVKVLMHDAVAYRQEKDENKWITHVNLSTKLTLQKRLQPAAMYEEKVRSIPDHYFKGFWSWSPSY
FRTPINNSSGEMDPILLTISILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLLEHLCKKPRKNLNVSNP
ESFLDCQIHRVDDIQARDEVEGFLQDTFPQQLEESEKQRLGGDVQSPNCPSEDVVVTPESFGRDSSLTCLAGNVS
ACDAPILSSSRSLDCRESGKNPHVYQDLLLLSLGTTNSTLPPFSLQSGILTLNPVAQGQPILTSLSNQEAYV
TMSSFYQNO

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FIGURE 1088A

GATACCCTTTACACTAGATTAGCAGGCAAACTATGATGGTTTGTGATATCCATGCTTGTAGAAGTAATAAGAAG
AAAGGGAACACAGAAGCTTTATTTTATAGTGGAGTCCTGACTCTAGGCCTTAATAATTGCATGGTTTTGGAGTTT
TCTTGAAGTACAACAAAGGACAGGTCACCACTAGGCACTAACATCGCTGACTTGCATGATTATGGAGATGGTCTA
TCTGATGCTGAAAAATGCTCTAGTTTTTTTGACAACGGCTAAATAAACC**ATG**GGATCAAGTGGCCTTGGGAAAGCAG
CAACATTAGATGAACTGCTGTGCACTTGCATTGAGATGTTTTGATGACAAATGGAGAGCTGGATAATAGTTATTTGC
CAAGAATAGTTCTACTGATGCACCGATGGTATTTATCTTCCACTGAATTGGCAGAAAACTTCTCTGCATGTATC
GAAATGCCACTGGAGAAAGCTGCAATGAATTTTCGATTAAAGATCTGCTACTTCATGAGGTACTGGATTCTGAAGT
TTCCTGCAGAGTTTAATTTGGATCTTGGTTTTGATTTCGTATGACTGAGGAATTTTCGGGAAGTAGCTAGTCAACTAG
GATATGAAAAACACGTCAGCCTCATCGACATATCCAGCATTCCCTTCCTATGACTGGATGAGAAGAGTCACACAGA
GGAAAAAGTATCCAAGAAGGGAAAAGCCTGTCTGCTGTTTGACCATCTGGAGCCCATTGAATTGGCTGAGCACC
TCACTTTTCTGGAGCATAAATCTTTTAGAAGGATCTCATTCACTGATTACCAAAGCTATGTCATCCATGGCTGCC
TGGAGAATAATCCAACCTTGGAAAGATCGATTGCTTTATTTAATGGAATCTCTAAGTGGGTCCAGTTGATGGTTC
TTAGCAAACCAACCCCCCAGCAAAGGGCAGAAGTCATCAGAAAGTTTATCAATGTTGCAAAGAAGCTCCTTCAGC
TCAAAAATTTTAACACCCTGATGGCAGTGGTGGGAGGCCTCAGTCATAGTTCCATTTACGCCTCAAAGAGACCC
ATTCTCATCTTTCTTCAGAAGTTACAAAGAACTGGAATGAAATGACAGAGTTGGTCTCCTCCAACGGCAATTACT
GCAATTACCGCAAGGCCTTTGCCGACTGCGATGGCTTCAAAAATCCCCATCCTTGGAGTACACTTGAAAGACTTGA
TAGCTGTCCATGTCATTTTCCAGACTGGACAGAGGAGAACAAAGTGAACATTGTGAAAATGCACCAGCTCTCCG
TTACCCCTGAGTGAAGTAGTCTCCCTGCAGAATGCCTCTCACCCTTAGAACCCAACATGGATTTGATCAACCTGC
TCACGCTTTCCCTGGACCTCTATCAGACTGAAGATGATATTTACAAACTGTCAGTGGTGTGAGCCTAGAAATT
CTAAATCGCCTACCTCCCCCTACGACGCCCAACAAGCCTGTGGTACCCCTGGAGTGGGCATTAGGGGTGATGCCAA
AGCCAGACCCACGGTCACTCAACAAGCACATAAGGAAATTAGTGGAGTCTGTATTTAGAACTATGATCAGACC
ATGATGGGTACATTTCCCAAGAGGACTTTGAAAGTATAGCTGCCAATTTTCCCTTCTTGGATTCTTCTGTGTTT
TGGACAAAAGATCAGGATGGCCTAATTAGTAAAGATGAAATGATGGCTTACTTCCTGAGAGCTAAATCCCAACTAC
ACTGTAAAATGGGACCAGGATTTATCCATAATTTTTCAGGAGATGACCTATCTCAAGCCAACCTTCTGCGAACACT
GTGCGGGATTTTCTTGGGGCATAATCAAGCAAGGATACAAATGCAAAGACTGTGGAGCCAATTGTACAAAACAGT
GCAAAGACCTCCTGGTTCTGGCCTGCAGGAGATTTGCCCGGGCGCCCTCCTTGAGCAGTGGTTCATGGGTCACTGC
CTGGAAGCCCCCTCGCTGCCCCCAGCGCAGGATGAGGTGTTTGAGTTCCCTGGAGTCACTGCTGGACACAGGGATT
TAGACAGCAGAGCCATCACACTGGTTACAGGCTCTTCTCGCAAGATCTCTGTGAGGCTACAGAGGGCCACCACCA
GCCAGGCCACCCAGACTGAACCTGTCTGGTCAGAGGCTGGCTGGGGGACTCGGGGTCCCACACCTTCCCTAAAA
TGAAATCCAAGTTCATGACAAAGCAGCAAAGGACAAAGGCTTTGCCAAATGGGAAAATGAGAAGCCCAGGGTGC
ATGCTGGTGTGGATGTTGTAGACCGGGGCACGGAGTTTGAACCTTGACCAGGATGAAGGAGAAGAGACCAGACAGG
ATGGTGAGGATGGCT**TGA**CTTCAGGCTGCGGAACTGAAGGCAATAATGTTGGCTTTTGGAAAGGGCAAGACGAGA
AACTCTGAAGAAAGCTCTGACTCTCAGGAAGTTATCTGGAAAGATACCTGGATGTTTACTGCCTTGGGACACTGT
GGGATCTCCATGTTTGGACTATGGGACAGAGAATTGACCCTAACTAACTATGAACATTTTATTTCTCTCCTCCCT
ACCCCTAGTTAAGTGCCACAAAGACTGTGTTATGTAGTCAGTACTTTTCTCATGTATCTTTCTCTAGACCATTTA
TATACGGGTGAAATGAAAGCTTTTTTGCATGTACTTGATACTCAGTCTGTAAACTCAGACTTTGCTTTTTTTGTG
AGACTATCCTTTCAATATTTTTATAAACTTTTGTGTGTGCTGTGGCAGGGAACAGTTAACAAGGAGTTTATTTAG
AGGGGTTTTTTTCATTTTTTGTTTTTCTTGTGTTTTGTTTTGTTTTGTTTTGTTCTTCTTGGTGTGCTTTTTTGGATG
GGACCAGAACTTAACATTTTCTGAGGACTAGGAAGCTCATCAGACACTGGAATGCAGTGATTCTTCTAATGATG
GTCAACTGCAAGGAGAACTGTTTACATCCTTCCCACTACACAGTTGCTATGATATGTAACAAGTCACACATGTA
TATATCACACAAGTCTTACCAATTCTGCGTCACTAGGAAGCTATAGCATGGTTCGTGAAAGCTCTCCTAATACTTA
CTTAAATAGCCATGGAAGAAAATTATGCTTGTCCCTTCTGACTGGGTAAAGCCATCTTTCTTAAGATTCTTGAAG
TAGAAATAGCAATTAAGAAATTAATTCAAGTTTTTGACGGTTAACATTTAGCAGAAAAACAAACCATTGAATAAGC
TACTAGGTGAAATGCAAAACAACCATCAATTTTTTTAACTCAATAATTTTGTGAAAAAACCACCACCAAA
CTTTTGGTTGTAAAAGAGAACCCTTGTTCCCTTCCCTAAGAACTGCCTTCCACAATTAAAGAATACTCATAGAAA
GAAAATAATCATAAATCATATTTGATTAAACATTTTCATTTAAGCTTTTAAATATCAATTTTTTAAATAGCTCCCA
TTTACCCAAAATAACTAGTTATGGGTCTATTTCTTCCATGATTAGAGGAGAGAGAAGTTGATTCAAGATACTGAA
AAATAGAGCTGGGACTGAGCCTGTGAATGACAGGAATGATCTATTACCAGGTGACTAGTCGGAACTACACAGAG

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FIGURE 1088B

GTGCACTGGTCTGCATTTGGGGGCTAAAGTGTATATATTCCATTTAAAAATGGAATTTGTTTGTATTTGGGGCAGT
CTTCAGTAAAGCCTTTCTCCTTTCTTTTCTCCATTGAGGACAGTTCTGCTCAGCAAAATTGTTGAGTACCTGTTC
TGGGCAGGTCCCACGCTATATGCACAAAGTTAAGAAAACTTGGTCTTAGCCCTTGGGAGCTGACAGCCCATGGG
CATTAAAGGCAAAGTAGTTCCAGTGATTTAAAATACGGTTCCAAATACGCTAAAACCAACTTGTGCCAACCAGATT
TACAGATTGGAAATACTGCAGATGATGTGAAGTTATCAGTTGGAGGAGCTGTGATTAAGCTGGATAATAAGAGAA
CGTGCCATCTGTAAAGCACTCAGAAGGCAGCCATCCCTAGATGTTGGTTTCATGTATATTACACTATCTACTACT
ATCCATAAATGCAATGATATGCATGTTAACAACATTAAAAACAGCAAACAGCAATCTAAGTACAGAAAAGCTCTT
TGTGTGTTTAAAAAAATTGAAGAAAATTCAGGAAGAAACGTGTTAATAAACATTGTACTGTTCTTTTGCTTCTCA
AAGG

1227/2825
FIGURE 1089

MGSSGLGKAATLDELLCTCIEMFDDNGELDNSYLPRIVLLMHRWYLSSTELA EKLLCMYRNATGES CNEFRLKIC
YFMR YWILKFPAEFNLDLGLIRMTEEFREVASQLGYEKHVSLIDISSIPSYDWMRRVTQRKKVSKKGKACLLFDH
LEPIELAEHLTFLEHKSFR RISFTDYQSYVIHGCLENNPTLERSIALFNGISKWVQLMVLSKPTPQQRAEVITKF
INVAKKLLQLKNFNTLMAVVGGLSHSSISRLKETHSHLSSEVTKNWNEMTELVSSNGNYCNYRKAFADCDGFKIP
ILGVHLKDLIAVHVIFPDWTEENKVNIVKMHQLSVTLSELVSLQNASHHLEPNMDLINLLTSLDLYHTEDDIYK
LSLVLEPRNSKSPTSPTTPNKPVPLEWALGVMPKPDPTVINKHIRKLVESVFRNYDHDHDGYISQEDFESIAAN
FPFLDSFCVLDKDQDGLISKDEMAYFLRAKSQLHCKMGP GF IHN FQEMTYLKPTFCEHCAGFLWGI IKQGYKCK
DCGANCHKQCKDLLVLACRRFARAPSLSSGHGSLPGSPSLPPAQDEVFEFFPGVTAGHRDLD SRAITLV TGSSRKI
SVRLQRATTSQATQTEPVWSEAGWGDSGSHTFPMKSKFHDKAAKDKGFAKWENEKPRVHAGVDVVD RGTEFELD
QDEGEETRQDGEDG

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FIGURE 1090

GCCCAGACCTATGGATTGAAAGCGTGTGCTTTACCCATCTGCTGTCTTGCTCCATCTGAGACCAGAGCCAAGATC
TGCCCAGGACTGGAATGCTTTCCCGAGTGGCTTGAGTTGGAGCCTGGGACTAGGAGCAGCCTTATTGAGGTACAA
TTCATGTGCTTGTGGGTTTGGATGGCACAATCTGTGTCTGGGCTAAGGAAAGCAGACTTGGCACCAACATTAACC
CTGACAGATCCAGGCATCTATTCCAGGAAGTGAAGCCAAGCGCAACAGGTGCTTGGAGGTATCATCATGATCAGCC
CAGACCCCAGGCCCTCCCTGGCTTGGCCCGGTGGGCTGAGAGCTATGAGGCCAAGTGTGAGCGCAGGCAAGAGA
TCCGTGAAAGCCGCCGTGCCGTCCCAATGTGACCACTTGCCGCCAGGTGGGGAAGACGCTGAGGATCCAACAGA
GAGAGCAGCTCCAGAGAGCTCGACTGCAGCAGTTCTTCAGGAGGAGGAACCTGGAGCTAGAGGAGAAGGGCAAAG
CGCAGCATCCCCAGGCCAGGGAGCAAGGGCCCTCCAGGCGGCCAGGACAGGTGACAGGCACCAGCTCTGAAGTCT
TTCCAGCCCAGCATCCTCCTCCCTCAGGCATCTGCAGGGATCTGTCTGACCACCTCTCCTCACAGGCTGGGGGCC
TTCTCCACAGGACACTCCCATCAAGAAGCCACCCAAACACCACCGTGGTACTCAGACAAAGGCAGAAGGACCAA
CAATTAAGAACGATGCCAGTCAGCAAACCAATTACGGAGTTGCAGTTCTGGATAAGGAAATCATCCAGCTTTCTG
ATTACCTCAAAGAGGCCCTACAAAGGGAGCTGGTCCTAAAACAGAAAATGGTGATTCTCCAAGACCTACTGTCCA
CTCTGATTCAGGCCTCTGACAGCTCTTGGAAGGGACAGCTTAATGAAGACAACTGAAGGGGAAACTGAGATCCT
TAGAAAACCAGCTATACACCTGTACCCAGAAATACTCCCCTTGGGGAATGAAAAAGTACTACTGGAGATGGAAG
ACCAGAAAAACAGCTATGAGCAGAAGGCCAAGGAGTCACTGCAGAAAGTGCTGGAGGAGAAAATGAATGCAGAGC
AGCAACTACAGAGCACACAGCGATCCCTGGCCCTGGCAGAGCAGAAGTGTGAAGAGTGGAGGAGCCAGTATGAGG
CTCTGAAGGAGGACTGGAGGACCCTTGGGACCCAGCACAGGGAGCTGGAGAGCCAACTCCACGTGCTTCAGTCCA
AACTGCAGGGAGCAGATAGCAGGGACTTACAGATGAACCAGGCCCTGCGATTTTTGGAAAATGAGCACCAGCAAC
TGCAGGCCAAGATTGAATGCCTGCAAGGGGACAGAGACCTGTGCAGCTTGGATACCCAGGACCTACAAGATCAAC
TAAAAAGGTCAGAGGCAGAGAAACTCACCTGGTGACCAGAGTACAGCAGTTGCAGGGTTTGCTTCAAAATCAAT
CCTTACAGCTTCAAGAACAGGAGAAACTCTTAACAAAGAAAAGATCAGGCTTTGCCCGTGTGGAGTCCAAAGTCCT
TCCCTAACGAAGTGGAGCCTGAGGGTACAGGGAAGGAGAAAAGACTGGGATCTCAGAGACCAGCTGCAAAAAGAAGA
CTTTGCAGCTCCAGGCCAAGGAAAAGGAGTGCAGAGAACTGCATTGAGAATTAGACAACCTCAGTGACGAGTATC
TCTCCTGCCTGCGTAAGCTGCAGCACTGTGAGAGAAGAGCTGAACCAGAGCCAGCAGCTGCCTCCCAGAAGGCAAT
GTGGGCGATGGCTCCCAGTGCTGATGGTGGTGATTGCTGCAGCACTGGCAGTGTTTCTGGCCAATAAAGACAACC
TGATGATCTGAAATAATTTGTGACAACCTGCCTTGGGTGAAAATCAGAAGCAAGCAACTCAGCGAAAAACTCAGAAG
GTTTGGGTACATTACAGCTTGGGTTTTCCAAGTACTTAGGATTTCTGACTTTTTTATTAATTTCTTAACCTACTG
TAAATAAACTTCACCTGACCAGATTGTTCTCA

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FIGURE 1091

MISPDPRPSPGLARWAESYEAKCERRQEIRESRRCRPNVTTTCRQVGKTLRIQQREQLQRARLQQFFRRRNLELEE
KGKAQHPQAREEQGPSRRPGQVTGTSSEVFPAQHPPPSGICRDLSDDLSSQAGGLPPQDTPIKKPPKHHRGTQTKA
EGPTIKNDASQQTNYGVAVLDEKIIQLSDYLKEALQRELVLKQKMVILQDLLSTLIQASDSSWKGQLNEDKLK GK
LRSLENQLYTCTQKYSPWGMKKVLLEMEDQKNSYEQKAKESLQKVLEEKMNAEQQLQSTQSRSLALAEQKCEEWS
QYEALKEDWRTLGTQHRELESQ LHVLSKLGADSRDLQMNQALRFLENEHQQLQAKIECLQGDRDLCSLDTQDL
QDQLKRSEAEKLTIVTRVQQQLQGLLQNSLQLQEQEKLLTKKDQALPVWSPKSFPNEVEPEGTGKEKDWDLRDQL
QKKTLQLQAKEKECRELHSELDNLSDEYLSCLRKLQHCREELNQSQQLP PRRQCGRWLPVLMVVIAAALAVFLAN
KDNLMI

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FIGURE 1092

AGCTGCCCCGCTCGCGTGTGTACCCCCGCGCACTGAAGGAGGTCCACCAGCCCTCACCAGCCCCGCGGACCGTG
CA**ATG**CCCCAGCGTAAGAATGCCAAGAGCAGCGGCAACAGCAGCAGCAGCGGCTCCGGCAGCGGTAGCACGAGTG
CGGGCAGCAGCAGCCCCGGGGCCCGGAGAGAGACAAAGCATGGAGGACACAAGAATGGGAGGAAAGGCGGACTCT
CAGGAACCTTCATTCTTCACGTGGTTTATGGTGATTGCATTGCTGGGCGTCTGGACATCTGTAGCTGTGCTTTGGT
TTGATCTTGTGACTATGAGGAAGTTCTAGGAAAACTAGGAATCTATGATGCTGATGGTGATGGAGATTTTGATG
TGGATGATGCCAAAGTTTTATTAGGACTTAAAGAGAGATCTACTTCAGAGCCAGCAGTCCCGCCAGAAGAGGCTG
AGCCACACACTGAGCCCCGAGGAGCAGGTTCTGTGGAGGCAGAACCCAGAAATATCGAAGATGAAGCAAAAGAAC
AAATTCAGTCCCTTCTCCATGAAATGGTACACGCAGAACATGTTGAGGGAGAAGACTTGCAACAAGAAGATGGAC
CCACAGGAGAACCACAACAAGAGGATGATGAGTTTCTTATGGCGACTGATGTAGATGATAGATTTGAGACCTGG
AACCTGAAGTATCTCATGAAGAAACCGAGCATAGTTACCACGTGGAAGAGACAGTTTACAAGACTGTAATCAGG
ATATGGAAGAGATGATGTCTGAGCAGGAAAATCCAGATTCCAGTGAACCAGTAGTAGAAGATGAAAGATTGCACC
ATGATACAGATGATGTAACATACCAAGTCTATGAGGAACAAGCAGTATATGAACCTCTAGAAAATGAAGGGATAG
AAATCACAGAAGTAAGTCTCCCCCTGAGGATAATCCTGTAGAAGATTACAGGTAATTGTAGAAGAAGTAAGCA
TTTTTCTGTGGAAGAACAGCAGGAAGTACCACCAGAAACAAATAGAAAAACAGATGATCCAGAACAAAAAGCAA
AAGTTAAGAAAAAGAAGCCTAAACTTTTTAAATAAATTTGATAAGACTATTAAAGCTGAACTTGATGCTGCAGAAA
AACTCCGTAAAAGGGGAAAAATTGAGGAAGCAGTGAATGCATTTAAAGAAGTACGCAAAATACCCTCAGAGTC
CACGAGCAAGATATGGGAAGGCGCAGTGTGAGGATGATTTGGCTGAGAAGAGGAGAAGTAATGAGGTGCTACGTG
GAGCCATCGAGACCTACCAAGAGGTGGCCAGCCTACCTGATGTCCCTGCAGACCTGCTGAAGCTGAGTTTGAAGC
GTCGCTCAGACAGGCAACAATTTCTAGGTCATATGAGAGGTTCCCTGCTTACCCTGCAGAGATTAGTTCAACTAT
TTCCCAATGATACTTCCTTAAAAAATGACCTTGGCGTGGGATACCTCTTGATAGGAGATAATGACAATGCAAAGA
AAGTTTATGAAGAGGTGCTGAGTGTGACACCTAATGATGGCTTTGCTAAAGTCCATTATGGCTTCATCCTGAAGG
CACAGAACAAAAATTGCTGAGAGCATCCCATATTTAAAGGAAGGAATAGAATCCGGAGATCCTGGCACTGATGATG
GGAGATTTTATTTCCACCTGGGGGATGCCATGCAGAGGGTTGGGAACAAAGAGGCATATAAGTGGTATGAGCTTG
GGCACAAGAGAGGACACTTTGCATCTGTCTGGCAACGCTCACTCTACAATGTGAATGGACTGAAAGCACAGCCTT
GGTGGACCCCCAAAAGAAACGGGCTACACAGAGTTAGTAAAGTCTTTAGAAAGAACTGGAAGTTAATCCGAGATG
AAGGCCTTGCAAGTATGGATAAAGCCAAAGGTCTCTTCCCTGCCTGAGGATGAAAACCTGAGGGAAAAAGGGGACT
GGAGCCAGTTACGCTGTGGCAGCAAGGAAGAAGAAATGAAAAATGCCTGCAAAGGAGCTCCTAAACCTGTACCT
TACTAGAAAAGTTCCCCGAGACAACAGGATGCAGAAGAGGACAGATCAAATATTCCATCATGCACCCCCGGGACTC
ACGTGTGGCCGCACACAGGGCCCAAACTGCAGGCTCCGAATGCACCTGGGCTTGGTGATTCCCAAGGAAGGCT
GCAAGATTCGATGTGCCAACGAGACCAAGACCTGGGAGGAAGGCAAGGTGCTCATCTTTGATGACTCCTTTGAGC
ACGAGGTATGGCAGGATGCCTCATCTTTCCGGCTGATATTCATCGTGGATGTGTGGCATCCGGAAGTACACCAC
AGCAGAGACGCAGCCTTCCAGCAATTT**AG**CATGAATTCATGCAAGCTTGGGAAACTCTGGAGAGAGGCTGCCTTT
CTGGTTCCATCTCCTTGGGTGTGAGGATAGAATTTGAAACACCAAGAGTCAA

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FIGURE 1093

MAQRKNAKSSGNSSSSSGSGSGSTSAGSSSPGARRETKHGGHKNGRKGGLSGTSFFTWFMVIALLGVWTSVAVVWF
DLVDYEEVLGKLGIIYDADGDGDFDVDDAKVLLGLKERSTSEPAVPPEEAEPHTEPEEQVPVEAEPQNIIDEAKEQ
IQSLLHEMVHAEHVEGEDLQQEDGPTGEPQQEDDEFLMATDVDDRFEETLEPEVSHEETEHSYHVEETVSQDCNQD
MEEMMSEQENPDSSEPVEDERLHHD TDDVTYQVYEEQAVYEPLENEGIEITEVTAPPEDNPVEDSQVIVEEVSI
FPVEEQQEVPPETNRKTDDPEQKAKVKKKKPKLLNKFDKTIKAELDAAEKLKRGKIEEAVNAFKELVKYPQSP
RARYGKAQCEDDLAEKRRSNEVLRGAIETYQEVASLPDVPADLLKLSLKRRSDRQQFLGHMRGSLTLQRLVQLF
PNDTSLKNDLGVGYLLIGDNDNAKKVYEEVLSVTPNDGFAKVHYGFILKAQNKIAESIPYLKEGIESGDPGTDDG
RFYFHLGDAMQRVGNKEAYKWYELGHKRGHFASVWQSRSLYNVNGLKAQPWWTPKETGYTELKSLERNWKLIRDE
GLAVMDKAKGLFLPEDENLREKGDWSQFTLWQQGRNENACKGAPKTCTLLEKFPETTGCRRGQIKYSIMHPGTH
VWPHTGPTNCRMLRMHLGLVIPKEGCKIRCANETKTWEEGKVLIFDDSFHEVWQDASSFRLIFIVDVWHPELTPQ
QRRSLPAI

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FIGURE 1094

GGGGGCCAAAGGGAAGTGCTGCGAGGTTTACAACCAGCTGCAGTGGTTTCGATGGGAAGGATCTTTCTCCAAGTGG
TTCCTCTTGAGGGGAGCAATTTCTGCTGGCTCCAGGACTTTGGCCATCTATAAAGCTTGGCAATGAGAAATAAGAA
AATTCTCAAGGAGGACGAGCTCTTGAGTGAGACCCAACAAGCTGCTTTTCACCAAATTGCAATGGAGCCTTTTCGA
AATCAATGTTCCAAAGCCCAAGAGGAGAAATGGGGTGAACCTTCTCCCTAGCTGTGGTGGTCATCTACCTGATCCT
GCTCACCCTGGCGCTGGGCTGCTGGTGGTCCAAGTTCTGAATCTGCAGGCGCGGCTCCGGGTCTGGAGATGTA
TTTCTCAATGACACTCTGGCGGCTGAGGACAGCCCGTCCTTCTCCTTGCTGCAGTCAGCACACCCTGGAGAACA
CCTGGCTCAGGGTGCATCGAGGCTGCAAGTCCTGCAGGCCCAACTCACCTGGGTCCGCGTCAGCCATGAGCACTT
GCTGCAGCGGGTAGACAACCTTCACTCAGAACCCAGGGATGTTTCAAGATCAAAGGTGAACAAGGCGCCCCAGGTCT
TCAAGGCCACAAGGGGGCCATGGGCATGCCCTGGTGGCCCTGGCCCCCGGGACCACCTGCTGAGAAGGGAGCCAA
GGGGGCTATGGGACGAGATGGAGCAACAGGCCCTCGGGACCCCAAGGCCACCAGGGAGTCAAGGGAGAGGGCGGG
CCTCCAAGGACCCCCAGGGTGCTCCAGGGAAGCAAGGAGCCACTGGCACCCAGGACCCCAAGGAGAGAAGGGCAG
CAAAGGCGATGGGGGTCTCATTGGCCCCAAAAGGGGAAACTGGAACCTAAGGGAGAGAAAGGAGACCTGGGTCTCCC
AGGAAGCAAAGGGGACAGGGGCATGAAAGGAGATGCAGGGGTGCTGGGGCCTCCTGGAGCCCAGGGGAGTAAAGG
TGAATTCGGGAGGCCAGGCCACCAGGTTTGGCTGGTTTTCTGGAGCTAAAGGAGATCAAGGACAACCTGGACT
GCAGGGTGTTCGGGGCCCTCCTGGTGCAGTGGGACACCCAGGTGCCAAGGGTGAGCCTGGCAGTGTGGCTCCCC
TGGGCGAGCAGGACTTCCAGGGAGCCCCGGGAGTCCAGGAGCCACAGGCCTGAAAGGAAGCAAAGGGGACACAGG
ACTTCAAGGACAGCAAGGAAGAAAAGGAGAATCAGGAGTTCCAGGCCCTGCAGGTGTGAAGGGAGAACAGGGGAG
CCCAGGGCTGGCAGGTCCCAAGGGAGCCCCTGGACAAGCTGGCCAGAAGGGAGACCAGGGAGTGAAGGATCTTC
TGGGGAGCAAGGAGTAAAGGGAGAAAAAGGTGAAAGAGGTGAAAACTCAGTGTCCGTCAGGATTGTGGCAGTAG
TAACCGAGGCCGGGCTGAAGTTTACTACAGTGGTACCTGGGGGACAATTTGCGATGACGAGTGGCAAAATTCTGA
TGCCATTGTCTTCTGCCGCATGCTGGGTTACTCCAAAGGAAGGGCCCTGTACAAAGTGGGAGCTGGCACTGGGCA
GATCTGGCTGGATAATGTTTCAAGTGTGCGGGCACGGAGAGTACCCTGTGGAGCTGCACCAAGAATAGCTGGGGCCA
TCATGACTGCAGCCACGAGGAGGACGCAGGCGTGGAGTGCAGCGCTTGAACCCGAAACCCTTTCACTTCTCTGCT
CCCGAGGTGTCTCGGGCTCATATGTGGGAAGGCAGAGGATCTCTGAGGAGTTCCCTGGGGACAACCTGAGCAGCC
TCTGGAGAGGGGCCATTAATAAAGCTCAACATCAAAAAAAAAAAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1095

MRNKKILKEDELLSETQQAAFHQIAMEPFEINVPKPKRRNGVNFSLAVVVIYLILLTAGAGLLVVQVLNLQARLR
VLEMYFLNDTLAAEDSPSFSLLQSAHPGEHLAQGASRLQVLQAQLTWVRVSHEHLLQRVDNFTQNPGMFRIKGEQ
GAPGLQGHKGAMGMPGAPGPPGPPAEKGAKGAMGRDGATGPSGPQGPPGVKGEAGLQGPQGAPGKQGATGTPGPQ
GEKGSKGDGGLIGPKGETGTKGEKGDGLPGSKGDRGMKGDAGVMGPPGAQGSKGDGFRPGPPGLAGFPGAKGDQ
GQPGLQGVPGPPGAVGHPGAKGEPGSAGSPGRAGLPGSPGSPGATGLKGSKGDGTLQGQQGRKGESGVPGPAGVK
GEQGSPLAGPKGAPGQAGQKGDQGVKGSSGEQGVKGEKGERGENSVSVRIVGSSNRGRAEVYYSGTWGTICDDE
WQNSDAIVFCRMLGYSKGRALYKVGAGTGQIWLDNVQCRGTESTLWSCTKNSWGHHDCSHEEDAGVECSV

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FIGURE 1096A

CTGCAGGAAGGAGAGAGGAAGAGGAGCAGAAGGGGGCAGCAGCGGACGCCGCTAACGGCCTCCCTCGGCGCTGAC
AGGCTGGGCGCGCGCCCGGCTCGCTTGGGTGTTTCGCGTCGCCACTTTCGGCTTCTCGGCCGGTCGGGCCCCCTCGGC
CCGGGCTTTCGGGCGCGCGTCGGGGCTGAGGGCTGCTGCGGCGCAGGGAGAGGCCTGGTCCTCGCTGCCGAGGGAT
GTGAGTGGGAGCTGAGCCCACTGGAGGGCCCCGAGGGCCCCAGCCTGGAGGTCGTTTCAGAGCCGTGCCCGCCC
CGGGGCTTTCGCAGACCTTGACCCGCCGGGTAGGAGCCGCCCTGCGGGCTCGAGGGCGCGCTCTGGTCGCCCGAT
CTGTGTAGCCGGTTTCAGAAGCAGGCAACAGGAACAAGATGTGAACCTGTTTCTTCTGAGAAAAAGAGGCTCT
TCCTCCTCCTCCCGCGACGGCAAATGTTCTGAAAAAGACTCTGCATGGGAATGGCCTGCCTTACGATGACAGAAA
TGGAGGGAACATCCACCTCTTCTATATATCAGAATGGTGATATTTCTGGAATGCCAATTCATGAAGCAAATAG
ATCCAGTTCTTCAGGTGTATCTTTACCATTCCCTTGGGAAATCTGAGGCAGATTATCTGACCTTTCCATCTGGGG
AGTATGTTGCAGAAGAAATCTGTATTGCTGCTTCTAAAGCTTGTGGTATCACACCTGTGTATCATAATATGTTTG
CTTTAATGAGTGAAACAGAAAGGATCTGGTATCCACCCAACCATGTCTTCCATATAGATGAGTCAACCAGGCATA
ATGTACTCTACAGAATAAGATTTTACTTTCTCGTTGGTATTGCAGTGGCAGCAACAGAGCCTATCGGCATGGAA
TATCTCGAGGTGCTGAAGCTCCTCTTCTTGATGACTTTGTCTGTCTTACCTCTTTGCTCAGTGGCGGCATGATT
TTGTGCACGGATGGATAAAAGTACCTGTGACTCATGAAACACAGGAAGAATGTCTTGGGATGGCAGTGTAGATA
TGATGAGAATAGCCAAAGAAAACGATCAAACCCCACTGGCCATCTATAACTCTATCAGCTACAAGACATTCTTAC
CAAAATGTATTTCGAGCAAAGATCCAAGACTATCATATTTTGACAAGGAAGCGAATAAGGTACAGATTTTCGCAGAT
TTATTTCAGCAATTCAGCCAATGCAAAGCCACTGCCAGAACTTGAACTTAAGTATCTTATAAATCTGGAACTC
TGCAGTCTGCCTTCTACACAGAGAAATTTGAAGTAAAAGAACCTGGAAGTGGTCCTTCAGGTGAGGAGATTTTGTG
CAACCATTATAATAACTGGAACGGTGGAATTCAGTGGTCAAGAGGGAAACATAAAGAAAGTGAGACACTGACAG
AACAGGATTTACAGTTATATTGCGATTTTCTTAATATTATTGATGTCTAGTATTAAGCAAGCAAACCAAGAGGGTT
CAAATGAAAGCCGAGTTGTAACCTATCCATAAGCAAGATGGTAAAAATCTGGAATTTGAACCTAGCTCATTAAGGG
AAGCTTTGTCTTTTCGTGTCTTAATTGATGGATATTATAGATTAACCTGCAGATGCACATCATTACCTCTGTAAAG
AAGTAGCACCTCCAGCCGTGCTTGAAAATATACAAAGCAACTGTCTATGGCCCAATTTTCGATGGATTTTGCCATTA
GTAAACTGAAGAAAGCAGGTAATCAGACTGGACTGTATGTACTTCGATGCAGTCCTAAGGACTTTAATAAATATT
TTTTGACTTTTGTCTGTCGAGCGAGAAAATGTCATTGAATATAAAACACTGTTTGATTACAAAAATGAGAATGAAG
AGTACAACCTCAGTGGGACAAAGAAGAACTTCAGCAGTCTTAAAGATCTTTTGAATTGTTACCAGATGGAAACTG
TTCGCTCAGACAATATAATTTTCCAGTTTACTAAATGCTGTCCCCCAAAGCCAAAAGATAAATCAAACCTTCTAG
TCTTCAGAACGAATGGTGTCTTCTGATGTACCAACCTCACCAACATTACAGAGGCCTACTCATATGAACCAAATGG
TGTTTCACAAAATCAGAAATGAAGATTTGATATTTAATGAAAGCCTTGCCAAGGCCTTTTACAAAGATTTTAA
AAGGCGTACGAAGAGAAGTAGGAGACTACGGTCAACTGCATGAAACAGAAAGTTCTTTTAAAGTTCTGGATAAAG
CACACAGAACTATTTCAGAGTCTTTCTTTGAAGCAGCAAGTATGATGAGCAAGCTTTCTCACAAGCATTGTGGTTT
TAAATTATGGAGTATGTGCTGTGGAGACGAGAATATTCTGGTTCAGGAGTTTGTAATAATTGGATCACTAGATA
CATATCTGAAAAAGAAATAAAATTTGTATAAATATATTATGGAACTTGAAAGTTGCTAAACAGTTGGCATGGGCCA
TGCATTTTCTAGAAGAAAACACCCTTATTCATGGGAATGTATGTGCCAAAAATATTCTGCTTATCAGAGAAGAAG
ACAGGAAGACAGGAAATCCTCCTTTCATCAAACCTTAGTGATCCTGGCATTAGTATTACAGTTTTTGCCAAAGGACA
TTCTTCAGGAGAGAATACCATGGGTACCACCTGAATGCATTGAAAATCCTAAAAATTTAAATTTGGCAACAGACA
AATGGAGTTTTTGGTACCCTTTGTGGGAAATCTGCAGTGGAGGAGATAAACCTCTAAGTGCTCTGGATTCTCAAA
GAAAGCTACAATTTTATGAAGATAGGCATCAGCTTCTTCGACCAAAGTGGGCAGAATTAGCAAACCTTATAAATA
ATTGTATGGATTATGAACCAGATTTTCAGGCCTTCTTTCAGAGCCATCATACGAGATCTTAACAGTTTGTCTTACTC
CAGATTATGAACTATTAACAGAAAATGACATGTTACCAAATATGAGGATAGGTGCCCTAGGGTTTTCTGGTGCCT
TTGAAGACCGGGATCCTACACAGTTTGAAGAGAGACATTTGAAATTTCTACAGCAACTTGGCAAGGGTAATTTTG
GGAGTGTGGAGATGTGCCGGTATGACCCTCTACAGGACAACACTGGGGAGGTGGTCGCTGTAAAAAGCTTCAGC
ATAGTACTGAAGAGCACCTAAGAGACTTTTGAAAGGGAAATTTGAAATCCTGAAATCCCTACAGCATGACAACATTG
TAAAGTACAAGGGAGTGTGCTACAGTGTGGTCGGCGTAATCTAAATTAATTATGGAATATTTACCATATGGAA
GTTTACGAGACTATCTTCAAAAACATAAAGAACGGATAGATCACATAAACTTCTGCAGTACACATCTCAGATAT
GCAAGGGTATGGAGTATCTTGGTACAAAAGGTATATCCACAGGGATCTGGCAACGAGAAATATATTGGTGGAGA
ACGAGAACAGAGTTAAATTTGGAGATTTTGGGTTAACCAGAGTCTTGCCACAAGACAAAGAATACTATAAAGTAA
AAGAACCTGGTGAAAGTCCCATATTCTGGTATGCTCCAGAATCACTGACAGAGAGCAAGTTTTCTGTGGCCTCAG

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FIGURE 1096B

ATGTTTGGAGCTTTGGAGTGGTTCTGTATGAACTTTTCACATACATTGAGAAGAGTAAAAGTCCACCAGCGGAAT
TTATGCGTATGATTGGCAATGACAAACAAGGACAGATGATCGTGTTCCATTTGATAGAACTTTTGAAGAATAATG
GAAGATTACCAAGACCAGATGGATGCCCAGATGAGATCTATATGATCATGACAGAATGCTGGAACAATAATGTAA
ATCAACGCCCTCCTTTAGGGATCTAGCTCTTCGAGTGGATCAAATAAGGGATAACATGGCTGGATTGAAAGAAAT
GACCTTCATTCTGAGACCAAAGTAGATTTACAGAACAAAGTTTTATATTTACATTGCTGTGGACTATTATTACA
TATATCATTATTATATAAATCATGATGCTAGCCAGCAAAGATGTGAAAATATCTGCTCAAAACTTTCAAAGTTTA
GTAAGTTTTTCTTCATGAGGCCACCAGTAAAAGACATTAATGAGAATTCCTTAGCAAGGATTTTGTAAAGAAGTTT
CTTAAACATTGTCTGTTAACATCACTCTTGTCTGGCAAAGAAAAAAATAGACTTTTCAACTCAGCTTTTTGA
GACCTGAAAAAATTATTATGTAAATTTTGCAATGTTAAAGATGCACAGAATATGTATGTATAGTTTTTACCACAG
TGGATGTATAATACCTTGGCATCTTGTGTGATGTTTTACACACATGAGGGCTGGTGTTCATTAATACTGTTTTCT
AATTTTTCCATAGTTAATCTATAATTAATTACTTCACTATACAAACAAATTAAGATGTTTCAGATAATTGAATAAG
TACCTTTGTGTCCTTGTTCACTTTATAICGCTGGCCAGCATTATAAGCAGGTGTATACTTTTAGCTTGTAGTTCCA
TGTAAGTAAATATTTTTCACATAAAGGGAACAAATGTCTAGTTTTATTTGTATAGGAAATTTCCCTGACCCTAA
ATAATACATTTTGAAATGAAACAAGCTTACAAAGATATAATCTATTTTATTATGGTTTCCCTGTATCTATTTGT
GGTGAATGTGTTTTTTTAAATGGAACCTATCTCCAAATTTTCTAAGACTACTATGAACAGTTTTCTTTTAAATTT
TGAGATTAAGAATGCCAGGAATATTGTCATCCTTTGAGCTGCTGACTGCCAATAACATTCTTCGATCTCTGGGAT
TTATGCTCATGAACTAAATTTAAGCTTAAGCCATAAAATAGATTAGATTGTTTTTTTAAATGGATAGCTCATT
AGAAGTGCAGCAGGTAAAGAAATTTTTCCTAAAGACTGTATATTTGAGGGGTTTCAGAATTTTGCAATTGCAGTCA
TAGAAGAGATTTATTTCTTTTTTAGAGGGGAAATGAGGTAAATAAGTAAAAAAGTATGCTTGTTAATTTTATTCA
AGAATGCCAGTAGAAAAATTCATAACGTGTATCTTTAAGAAAAATGAGCATACATCTTAAATCTTTTCAATTA

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FIGURE 1097

MGMACLTMTMEGTSSTSSIIYQNGDISGNANSMSKQIDPVLQVYLYHSLGKSEADYLTFFPSGEYVAEEICIAASKAC
GITPVYHNMFALMSETERIWYPPNHVFHIDESTRHNVLRYRIFYFPRWYCSGSNRAYRHGISRGAEAPLLDDFVM
SYLFAQWRHDFVHGWIKVPVTHETQEECLGMAVLDMMRIAKENDQTPLAIYNSISYKTFLPKCIRAKIQDYHILT
RKRIYRFRRFIQQFSQCKATARNLKLKYLINLETLSAFYTEKFEVKEPGSGPSGEEIFATIIITGNGGIQWSR
GKHKESETLTEQDLQLYCDFPNIIDVSIKQANQEGSNESRVVTIHKQDGKNLEIELSSLREALSFVSLIDGYRL
TADAHHYLCKEVAPPVAVLENIQSNCHGPISMDFAISKLLKAGNQTLGYVLRCSPKDFNKYFLTFFAVERENVIEYK
HCLITKNENEYNLSGTKKNFSSLKDLLNCYQMETVRSNIIIFQFTKCCPPKPKDKSNLLVFRTNGVSDVPTSPT
LQRPTHMNQMVFHKIRNEDLIFNESLGQGTFTKIFKGVRRVGDYQGLHETEVLLKVLDKAHRNYSSESFFEAASM
MSKLSHKHLVLNYGVCVCGDENILVQEFVKFGSLDTYLLKKNKNCINILWKLEVAKQLAWAMHFLEENTLIHGNVC
AKNILLIREEDRKTGNPPFIKLSDPGISITVLPKDILQERIPWVPPECIENPKNLNLATDKWSFGTTLWEICSGG
DKPLSALDSQRKLQFYEDRHQLPAPKWAELANLINNCMDYEPDFRPSFRAIIRDNLNLSFTPDYELLTENDMLPNM
RIGALGFSGAFEDRDPTQFEERHLKFLQQLGKGNFGSVEMCRYDPLQDNTGEVVAVKKLQHSTEEHLRDFEREIE
ILKSLQHDNIVKYKVCYSAGRRNLKLIMEYLPYGSLRDYLOKHKERIDHIKLLQYTSQICKGMEYLGTKRYIHR
DLATRNLVENENRVKIGDFGLTKVLPQDKEYYKVKEPGESPIFWYAPESLTESKFSVASDVWSFGVVLYELFTY
IEKSKSPPAEFMRMIGNDKQGQMIVFHLIELLKNNGRLPRPDGCPDEIYMIMTECWNNNVNQRP SFRDLALRVDQ
IRDNMAG

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FIGURE 1098

ACCACTGCTGGCTTTTTGCTGTAGCTCCACATTCTGTGCATTGAGGGGTAAACATTAGGCTGGGAAGATGACAA
AACTTGAAGAGCATCTGGAGGGAATTGTCAATATCTTCCACCAATACTCAGTTCGGAAGGGGCATTTTGACACCC
TCTCTAAGGGTGAGCTGAAGCAGCTGCTTACAAAGGAGCTTGCAAACACCATCAAGAATATCAAAGATAAAAGCTG
TCATTGATGAAATATTCCAAGGCCTGGATGCTAATCAAGATGAACAGGTCGACTTTCAAGAATTCATATCCCTGG
TAGCCATTGCGCTGAAGGCTGCCATTACCACACCCACAAAGAGTAGGTAGCTCTCTGAAGGCTTTTTACCCAGC
AATGTCCTCAATGAGGGTCTTTTCTTCCCTCACCAAACCCAGCCTTGCCCGTGGGGAGTAAGAGTTAATAAAC
ACACTCACGAAAAGTT

1238/2825
FIGURE 1099

MTKLEEHLEGIVNIFHQYSVRKGHFDTLKSGELKQLLTKE
LANTIKNIKDKAVIDEIFQGLDANQDEQVDFQEF
I
SLVAIALKAAHYH
THKE

1239/2825
FIGURE 1100

AGCGGGAAAAAACTTATCTGAGGTTGGAAATAAAGAGAAGGTGACATTGGAGCGGATAGAAAGGAAGAAACGG
CGTGGGATCTGGGAATGAGGCAGTGGGTGGAGAGAGAATGGGGAGACGACAGAGGATGAAGGGCAGCTGAGTGTG
TCTGCGGGAGAAGGACCAAAGCAATCTGGGCGGAGCAGGTGGCAGAGGCAGCCGCGGAGGAGGCCAGGGAACTG
ACGGGGATGCTCAGCCAGGCCCAGAGGATGCGCCCTGGCAGTCCCGGAAGACACCAGGAAAACAAGCAGGAACCG
TAGCTAGGACTGGGGTGGCCAGGCCCAGGAAATCCATGAAGGGGCACAGACAGCGGGTCCCTGCTGCCGCCGCCGAT
GCGACTTTGGCTGCTGCTGTCGCGCGTCCCGCCGGGCTCACTACACGCCTTACCGGTCCGGGGACGCGACGCGAA
CCCCTCAGTCCCCACGGCAGACCCCCGAGCCGGGAAAGACGGCGCCCCGGAGCCAGCCGGGAGCTGGGCAGCAGCGG
CCGAGGAGGAAGAAGCAGCTGCGGCGGCCACACCCTGGATGAGAGATTATTTTGCAGAGGATGATGGGGAGATGG
TACCCAGAACGAGTCACACAGCAGCTTTTCTTAGTGACACTAAAGATCGAGGCCCTCCAGTGCAGTCACAGATCT
GGAGAAGTGGTGAAAAGGTCCCGTTTGTGCAGACATATTCCTTGAGAGCATTGAGAAAACCCCTCAGGTACAGA
CCCAGGCTCTTCGAGACTTTGAGAAGCACCTCAATGACCTGAAGAAGGAGAACTTCAGCCTCAAGCTGCGCATCT
ACTTCCTGGAGGAGCGCATGCAACAGAAGTATGAGGCCAGCCGGGAGGACATCTACAAGCGGAACACTGAGCTGA
AGGTTGAAGTGAGAGCTTGAAACGAGAACTCCAGGACAAGAAACAGCATCTGGATAAAACATGGGCTGATGTGG
AGAATCTCAACAGTCAGAATGAAGCTGAGCTCCGACGCCAGTTTGAGGAGCGACAGCAGGAGACGGAGCATGTTT
ATGAGCTCTTGGAAGAATAAGATGCAGCTTCTGCAGGAGGAATCCAGGCTAGCAAAGAATGAAGCTGCGCGGATGG
CAGCTCTGGTGGAAGCAGAGAAGGAGTGTAACTGGAGCTCTCAGAGAACTGAAGGGAGTCACCAAAAACCTGGG
AAGATGTACCAGGAGACCAGGTCAAGCCCGACCAATACACTGAGGCCCTGGCCCAGAGGGACAAGTAGTGCCTT
CGGTGCTCTTTTGTGCTTGTCTTTGCCCATTCTCAAGGCATACAGCAGCTGTCTGTTCCTTTCAAGGACT
GACAGTAGGAGCTTCACTATTTCTAAGACTTTATGGGCCACAACCGAAGACATTCTTTTCAGGGTTGAATTTTC
AGTGGTATCCATTATGAAAACCTCACTTCATGGATTCACTGGGCAAATAGCGGCAAGCAAGAGACATGGATTCACT
TATTCAGCAAACATTTACTGGGCATGCCACATGCCAGATACCGGGCTAAGTATCTGGCATGTGTTACAGAAACAA
AAGACCTAAATCTTGTACCAAGAAACATGTTACATGATTTTAATAAGTTCCCTGATAGAAGAGCATGGGGTGCT
CTGGGGAAATATTGGAGGGTCATCCATTCCACATTAAAAGAGCAAGTTGCCAAAAAAAAAAAAAAAAAAAA

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FIGURE 1101

MKGTDSGSCRRRCDFGCCRASRRAHYTPYRSGDATRTPQSPRQTPSRERRRPEPAGSWAAAAEEEEAAAAATP
WMRDYFAEDDGEMVPRTSHTAAFLSDTKDRGPPVQSQIWRSGEKVPFVQTYSLRAFEKPPQVQTQALRDFEKHLN
DLKKENFSLKLRIYFLEERMQQKYEASREDIYKRNTTELKVEVESLKRELQDKKQHLDKTDWADVENLNSQNEAELR
RQFEERQQETEHVYELLENKMQLLQEE SRLAKNEAARMAALVEAEKECNLELSEKLKGVTKNWEDVPGDQVKPDQ
YTEALAQRDK

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FIGURE 1102A

GGCAGGGCACACCTGGATTGCATTAGAATGAGACTCACTACCCAGTTCAGGTGTGTTGCGTTGTGGGTCTCCGGC
ACATTTTCAGAGGCTGATTAGGACCCTGACCCACACTGGGGTTTACACCCCTAAAAGCAGGTGTGTCCCGTGGCA
ACTGAGTGGGTGCGTGAAAAGGGGGGATCATCAATTACCAGCTGGAGCAATCGAATCGGTTAAATGTGAATCAAG
TCACAGTGCTTCCTTAACCCAACCTCTCTGTTGGGGTCAGCCACAGCCTAAACCGCCTGCCGTTTCAGCCTGAGAG
GCTGCTGCTAGCCTGCTCACGCATGCAGCCCCGGGCTGCAGAGGAAGTGTGGGGAGGAAGGAAGTGGGTATAGAAG
GGTGCTGAGATGTGGGTCTTGAAGAGAATAGCCATAACGTCTTTGTCTACTAAAATGTTCCCCAGGGGCCCTTCGGC
GAGTCTTTTTGTTTGGTTTTTTTGTAAAACTCTGTGGCTCTTGATAATTTATCTAGTGGTTGCCTACACCTGAAA
AACAAGACACAGTGTAACTATCAACGAAAGAACTGGACGGCTCCCCGCCGAGTCCCACTCCCCGAGTTTGTG
GCTGGCATTGTGGGCCACGCCGGGCTGGGCGGCTCACAGCGAGGGGCGCGCAGTTTGGGGTCACACAGCTCCGCTT
CTAGGCCCAACCACGTTAAAGGGGAAGCCCGTGCCCATCAGGTCCGCTCTTGCTGAGCCCAGAGCCATCCC
GCGCTCTGCGGGCTGGGAGGCCCGGGCCAGACGCGAGTCTGCGCAGCCGAGGTTCCCCAGCGCCCCCTGCAGCC
GCGCGTAGGCAGAGACGGAGCCCGGCCCTGCGCCTCCGCACCACGCCCGGACCCACCCAGCGGCCCGTACCCG
GAGAAGCAGCGCAGCACCCGAAGCTCCCGGCTCGGCGGCAGAAACCGGGAGTGGGGCCGGGCGAGTGC GCGGCA
TCCCAGGCCGGCCCGAACGTCCGCCCGCGGTGGGCCGACTTCCCCCTCTCTTCCCTCTCTCTCTCTTTAGCCCG
CTGGCGCCGGACACGCTGCGCCTCATCTCTTGGGGCGTTCTTCCCCGTGGCCAACCGTCGCATCCCGTGCAACT
TTGGGGTAGTGGCCGCTTAGTGTTGAATGTTTCCCCACCGAGAGCGCATGGCTTGGGAAGCGAGGCGGAACCCGG
GCCCCGAAGCCGCCGTCCGGGAGACGGTGATGCTGTTGCTGTGCCGTGGGGTCCCGACCGGCCGCCCTACAACG
TGGACACTGAGAGCGCGCTGCTTTACCAGGGCCCCCACAACACGCTGTTCCGGTACTCGGTGCTGCTGCACAGCC
ACGGGGCGAACCGATGGCTCCTAGTGGGTGCGCCCACTGCCAACTGGCTCGCCAACGCTTCAGTGATCAATCCCG
GGGCGATTACAGATGCAGGATCGGAAAGAATCCCGGCCAGACGTGCGAACAGCTCCAGCTGGGTAGCCCTAATG
GAGAACCTTGTGGAAGACTTGTTTGAAGAGAGAGACAATCAGTGGTTGGGGGTCACACTTTCCAGACAGCCAG
GAGAAAAATGGATCCATCGTGACTTGTGGGCATAGATGGAAAAATATATTTTACATAAAGAATGAAAAATAAGTCC
CCACTGGTGGTTGCTATGGAGTGCCCCCTGATTTACGAACAGAAGTGAAGTAAAAGAATAGCTCCGTGTTATCAAG
ATTATGTGAAAAAATTTGGAGAAAATTTTGCATCATGTCAAGCTGGAATATCCAGTTTTTACACAAAGGATTTAA
TTGTGATGGGGGCCCCAGGATCATCTTACTGGACTGGCTCTCTTTTTGTCTACAATATAACTACAAATAAATACA
AGGCTTTTTTTAGACAAACAAAATCAAGTAAAATTTGGAAGTTATTTAGGATATTCAGTCGGAGCTGGTCATTTTC
GGAGCCAGCATACTACCGAAGTAGTCGGAGGAGCTCCTCAACATGAGCAGATTGGTAAGGCATATATATTCAGCA
TTGATGAAAAAGAACTAAATATCTTACATGAAATGAAAGGTAAAAAGCTTGGATCGTACTTTGGAGCTTCTGTCT
GTGCTGTGGACCTCAATGCAGATGGCTTCTCAGATCTGCTCGTGGGAGCACCCATGCAGAGCACCATCAGAGAGG
AAGGAAGAGTGTGTGTACATCAACTCTGGCTCGGGAGCAGTAATGAATGCAATGGAACAAACCTCGTTGGAA
GTGACAAATATGCTGCAAGATTTGGGAATCTATAGTTAATCTTGCCGACATTGACAATGATGGCTTTGAAGATG
TTGCTATCGGAGCTCCACAAGAAGATGACTTGCAAGGTGCTATTTATATTTACAATGGCCGTGCAGATGGGATCT
CGTCAACCTTCTCACAGAGAATTGAAGGACTTCAGATCAGCAAATCGTTAAGTATGTTTGGACAGTCTATATCAG
GACAAATGATGCAGATAATAATGGCTATGTAGATGTAGCAGTTGGTGCTTTTCGGTCTGATTCTGCTGTCTTGC
TAAGGACAAGACCTGTAGTAATTGTTGACGCTTCTTTAAGCCACCCTGAGTCAGTAAATAGAACGAAATTTGACT
GTGTTGAAAAATGGATGGCCTTCTGTGTGCATAGATCTAACACTTTGTTTCTCATATAAGGGCAAGGAAGTTCCAG
GTTACATTGTTTTGTTTTATAACATGAGTTTGGATGTGAACAGAAAGGCAGAGTCTCCACCAAGATTCTATTTCT
CTTCTAATGGAACCTTCTGACGTGATTACAGGAAGCATACAGGTGTCCAGCAGAGAAGCTAACTGTAGAACACATC
AAGCATTTATGCGGAAAGATGTGCGGGACATCCTCACCCCAATTCAGATTGAAGCTGCTTACCACCTTGGTCCTC
ATGTCATCAGTAAACGAAGTACAGAGGAATTCACCACTTCAGCCAATTCCTCAGCAGAAGAAAGAAAAAGACA
TAATGAAAAAAACAATAAATTTGCAAGGTTTTGTGCCCCATGAAAATTGTTCTGCTGATTTACAGGTTTCTGCAA
AGATTGGGTTTTTGAAGCCCCATGAAAATAAAACATATCTTGCTGTTGGGAGTATGAAGACATTGATGTTGAATG
TGTCCTTGTTAATGCTGGAGATGATGCATATGAAACGACTCTACATGTCAAACCTACCCGTGGGTCTTTATTTCA
TTAAGATTTTGTAGCTGGAAGAGAAGCAAATAAACTGTGAAGTCACAGATAACTCTGGCGTGGTACAACCTTGACT
GCAGTATTGGCTATATATATGTAGATCATCTCTCAAGGATAGATATTAGCTTTCTCCTGGATGTGAGCTCACTCA
GCAGAGCGGAAGAGGACCTCAGTATCACAGTGCATGCTACCTGTGAAAATGAAGAGGAAATGGACAATCTAAAGC
ACAGCAGAGTGAAGTAGCAATACCTTTAAAATATGAGGTAAAGCTGACTGTTTCATGGGTTTGTAAACCAACTT
CATTTGTGTATGGATCAAATGATGAAAATGAGCCTGAAACGTGCATGGTGGAGAAAATGAACCTTAACCTTCCATG

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FIGURE 1102B

TTATCAACACTGGCAATAGTATGGCTCCCAATGTTAGTGTGGAAATAATGGTACCAAATTCCTTTAGCCCCCAA
CTGATAAGCTGTTCAACATTTTGGATGTCCAGACTACTACTGGAGAATGCCACTTTGAAAATTATCAAAGAGTGT
GTGCATTAGAGCAGCAAAAGAGTGCAATGCAGACCTTGAAAGGCATAGTCCGGTTCTTGTCCAAGACTGATAAGA
GGCTATTGTACTGCATAAAAGCTGATCCACATTGTTTAAATTTCTTGTGTAATTTTGGGAAAAATGGAAAGTGGA
AAGAAGCCAGTGTTTCATATCCAACCTGGAAGGCCGCCATCCATTTTAGAAATGGATGAGACTTCAGCACTCAAGT
TTGAAATAAGAGCAACAGGTTTTCCAGAGCCAAATCCAAGAGTAATTGAACTAAACAAGGATGAGAATGTTGCGC
ATGTTCTACTGGAAGGACTACATCATCAAAGACCCAAACGTTATTTACCATAGTGATTATTTCAAGTAGCTTGC
TACTTGGACTTATTGTACTTCTGTTGATCTCATATGTTATGTGGAAGGCTGGCTTCTTTAAAAGACAATACAAAT
CTATCCTACAAGAAGAAAACAGAAGAGACAGTTGGAGTTATATCAACAGTAAAAGCAATGATGATTAAGGACTTC
TTTCAAATTGAGAGAATGGAAAACAGACTCAGGTTGTAGTAAAGAAATTTAAAAGACACTGTTTACAAGAAAAAA
TGAATTTTGTGGACTTCTTTTACTCATGATCTTGTGACATATTATGTCTTCATGCAAGGGGAAAAATCTCAGCA
ATGATTACTCTTTGAGATAGAAGAACTGCAAAGGTAATAATACAGCCAAAGATAATCTCTCAGCTTTTAAATGGG
TAGAGAAACACTAAAGCATTCAATTTATTCAAGAAAAGTAAGCCCTTGAAGATATCTTGAAATGAAAGTATAACT
GAGTTAAATTATACTGGAGAAGTCTTAGACTTGAAATACTACTTACCATATGTGCTTGCCCTCAGTAAATGAACC
CCACTGGGTGGGCAGAGGTTTCAATTTCAAATACATCTTTGATACTTGTTCAAAATATGTTCTTTAAAAATATAATT
TTTTAGAGAGCTGTTCCCAAATTTTCTAACGAGTGGACCATTATCACTTTAAAGCCCTTTATTTATAATACATTT
CCTACGGGCTGTGTTCCAACAACCATTTTTTTTCAGCAGACTATGAATATTATAGTATTATAGGCCAAACTGGCA
AACTTCAGACTGAACATGTACACTGGTTTGAGCTTAGTGAAATGACTTCCGGAATCT

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FIGURE 1103

MFPTESAWLGKRGANPGPEAAVRETVMLLLCLGVPTGRPYNVDTESALLYQGPHNTLFGYSVVLHSHGANRWLLV
GAPTANWLANASVINPGAIYRCRIGKNPGQTCEQLQLGSPNGEPCGKTCLEERDNQWLGVTLSRQPGENGSIIVTC
GHRWKNIFYIKNENKLPTGGCYGVPPDLRTELSKRIAPCYQDYVKKFGENFASCQAGISSFYTKDLIVMGAPGSS
YWTGSLFVYNITTNKYKAFLDKQNQVKFGSYLGYSVGAGHFRSQHTTEVVGGAPQHEQIGKAYIFSIDEKELNIL
HEMKGKKLGSYFGASVCAVDLNADGFSDLLVGAPMQSTIREEGRVFVYINSGSGAVMNAMETNLVGSDDKYAARFG
ESIVNLGDIDNDGFEDVAIGAPQEDDLQGAIIYNGRADGISSTFSQRIEGLQISKSLSMFGQSSISGQIDADNNG
YVDVAVGAFRSDSAVLLRTRPVVIVDASLSHPESVNRKFDCEVNGWPSVCIDLTLCSYKGKEVPGYIVLFYNM
SLDVNRKAESPFRFYFSSNGTSDVITGSIQVSSREANCRTHQAFMRKDVRDILTPIQIEAAYHLGPHVISKRSTE
EFPPLQPILOQKKEKDIMKKTINFARFCAHENC SADLQVSAKIGFLKPHENKTYLAVGSMKTLMLNVSLFNAGDD
AYETTLHVKLPGVGLYFIKILELEEKQINCEVTDNSGVVQLDCSIGIYVDHLRIDISFLLDVSSLSRAEEDLSI
TVHATCENEEEMDNLKHSRVTVAIPLKYEVKLTVHG FVNPTSFVYGSNDENEPETCMVEKMNLTFHVINTGNSMA
PNVSVEIMVPNSFSPQTDKLFNILDVQTTTGECHFENYQRVCALEQQKSAMQTLKGIVRFLSKTDKRLLYCIKAD
PHCLNFLCNFGKMESGKEASVHIQLEGRPSILEMDETSALKFEIRATGFPEPNPRVIELNKDENVAHVLLLEGLHH
QRPKRYFTIVIISSSLLLGLIVLLLISYVMWKAGFFKRQYKSILQEENRRDSWSYINSKSND

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FIGURE 1104A

GGAGGCTGCATCCGACTCGGTCAACAAGGAAAATGGATTTCAGTTTGCATCTCTCCCTCCTTTAAACAGCTTCTCCG
GGTCTCAGCATGGGCTTCCAGGGCAGCGATTGAGGAGACCTTACCAAGGAGCACCACACAGTAGATGCTGAGACA
TCGTACTCCAGGATAAGAAAACAGTAACATGGCAGCACCTGCTTGAAAAGAAATTAAAAACCAACAGACTCCATTTA
GAAAGGAACAATGTTCCAAGAAAGGGCGAAATAAGGGCGAGAAGCCCGAGGCACTCATTGTTGCCCTTCAAGCTGC
CAATGAAGACCTCAGGACCAAGCTCACAGACATTTCAGATAGAGCTGCATCAAGAGAAGTCCAAGGTATCAAAGCT
TGAAAGAGAGAAGACTCAAGAAGCGAAGAGGATTTCGTGAGCTGGAGCAGCGCAAGCACACGGTGCTGGTGACAGA
ACTCAAAGCCAAGCTCCATGAGGAGAAGATGAAGGAGCTGCAGGCTGTGAGGGAGAACCTTATCAAGCAGCACGA
GCAGGAAATGTCAAGGACGGTGAAGGTACGTGATGGAGAGATCCAGAGGCTCAAGTCTGCTCTCTGTGCTCTCCG
CGACGGCAGCAGTGACAAAGTAAGGACAGCGCTCACCATTGAGGCCCGGGAGGAGGCCCGGAAACTGTTTGACAC
AGAGCGCCTTAAGCTCTTACAGGAAATTGCGGACCTGAAAACGGCCAAGAAGCAGGTGGACGAGGCTCTGAGCAA
TATGATCCAAGCAGATAAAATCAAGGCTGGGGACCTTCGGAGTGAGCATCAGTCCCACCAAGAAGCCATCTCGAA
GATCAAGTGGGAGTCGGAGCGGGATATTTCGGAGGCTGATGGATGAAATCAAAGCCAAGGACAGGATCATCTTTTC
CCTGGAAAAGGAACTGGAGACCCAGACAGGCTATGTACAGAAACTCCAACCTCAGAAGGAGGCTTTGGACGAACA
ACTCTTTCTGGTCAAGGAGGCTGAGTGCAACATGAGCAGCCCAAAACGAGAAATTCCAGGAAGGGCAGGTGATGG
TTCCGAACACTGCAGCAGTCTGATTTGCGAAGAAATCAAAAGAGAATAGCTGAATTGAATGCCACTATAAGAAA
ATTAGAAGACAGGAATACCTTGCTTGAGATGAACGAAATGAACTGTTAAACGTGTGCGGGAACCGAAAAGCA
ATGTAAACCTCTCCTGGAAAGGAACAAGTGCCTCGCCAAGAGAAACGATGAACTGATGGTGTCTTGCAGCGCAT
GGAAGAAAAAACTAAAAGCCGTTACCAAGGAAAATTCAGAAATGAGAGAAAAAATAACATCCCATCCACCCCTGAA
GAAATTAATAATCTCTGAATGACCTCGACCAAGCTAATGAAGAACAGAAACAGAGTTTCTAAACTTCAGGTCAT
TGAGCAACAGAACATTATTGATGAGCTCACAAGGGACCGAGAAAAGCTCATCCGTAGAAGAAAGCATAGAAGAAG
TTCCAAGCCAATTAAGAGGCCTGTTTTGGACCCGTTTATTGGCTATGATGAGGACTCTATGGATTTCAGAGACATC
ATCCATGGCCTCATTTAGAACAGACAGAACACCAGCTACTCCTGATGATGACTTGGATGAAAGTTTTAGCAGCTGA
AGAATCTGAACTAAGATTTTCGACAATTAACAAAAGAATATCAGGCCCTCCAAAGAGCATATGCCCTCCTACAGGA
GCAGACGGGAGGCATCATCGACGCTGAACGAGAAGCCAAGGCTCAAGAACAGCTCCAAGCAGAGGTGCTAAGGTA
TAAAGCCAAAAATTGAAGACCTGGAAGCGACTCTGGCTCAGAAAAGGGCAGATAGAAAAACAGGAGGCAGAAAAATCA
CCGGTTACAACAAGAACTACAGGACGCCAGAGACCAGAATGAGCTGCTGGAGTTTCGAAACCTAGAGCTAGAAGA
GAGAGAGAGACGATCCCCTCCATTTAATCTCCAATTCACCCATTCTCAGATGGTGTGAGTGCTCTACAGATCTA
CTGTATGAAAGAAGGTGTTAAGGATGTGAACATCCCTGATCTCATAAAGCAGCTTGATATCTTGGGTGATAATGG
GAATTTAAGAAATGAAGAACAAGTGGCCATAATTCAGGCCAGCACTGTGCTGTCCCTGGCAGAGAAGTGGATCCA
GCAGATTGAAGGAGCTGAGGCTGCCCTACACCAGAAAATGATGGAAATTGGAAAGTGACATGGAACAGTTCTGCAA
AATAAAAGGCTATCTGGAGGAAGAACTAGACTACAGAAAACAAGCTCTTGACCAAGCATATATGAGAATCCAGGA
ACTAGAAGCTACTTTGTACAATGCTCTACAGCAAGAACTGTTATCAAGTTTGGTGAATTATTAAGTGAAAAACA
GCAAGAGGAGCTGAGGACGGCAGTAGAAAAGTTACGGCGGCAAATGCTGAGGAAGAGCAGAGAGTATGACTGTCA
GATTCCTCAGGAGAGAATGGAGCTCTTACAGCAAGCCCATCAGAGAATTTCGTGACTTAGAAGATAAAACAGACAT
CCAGAAAAGACAAATAAAAGACTTAGAAGAAAAGTTTCTGTTTCTATTCTTGTCTCTCTTGCCTTTATTCT
ATGGCCTTGATGATGTCAGGTGCCTCTTAAAGAGTAACCGAAAACATGGATAAGATCCCAGGAAGACAAGTGCTTCT
AAACCTTCAAAGATGGCAAAATTGTTTACACCAGTGAGAGGGAGATCAAAGCTAAGAACTACCCTGTAGCCAGG
ACTACAACCTGTGTATTTTAAAGCCATTATTCAAGGTTTCTTACTTGACAGTTCCTACACAACCCTGTTGAAAATC
TACAATATATGCTGCATTTAATGAAACATGTATATGTCAAATCAGAAGAGAAGAACTATAAACATATATTGTGTA
AAGAAAAAGTTTCAGCAATGGAAGTAGTTTCTGCAGATCAAGCAAAGATGTGTCTTGGGCATGGAACCAAAGTTAC
AATGAAATATTCAACCCCTGCTGTGCAGGGGGGTCAATTTAATGTAACACCACACCCCATGGAAACACTAGTCTT
GATAATAAACATCATTTTTAAAGATCAAAACAAACAAACAAAAAAACAAGGGTGGGTGGGGAGTGAAGCACGAG
GAATACCTATGAAGAGCTATTTACAATAAAATGTTTCATTTGAAAAGTCTGGTTTCTTACTACAGGGATTTGCTT
TTCTGTCTTTATGATTGTTTTAACTCAGGAACAGAGACATCCGCATCGTAAATGGGAAGAAAAACACTCTCTGT
TTTGTTTTCTGCAAAAGGTGGAGCTTGTGGAATTCATTCCACAGACGACAGATGAGAAGTGGATCACAGTGACC
ATAACAAAACCTGGTAACGAAGTCAAAGGACCCGAGCGAATGTGACATGTGAAATAAAAGCAGATTTCGATGCTTCC
TTGTCTACTCTCACATCTGCATTCTCTATCAACAATGGACTGATCTCATTATATTGAAAACATAAGAAGATGA
TACTGTAAATCACATGCTCCCTGACTTAGTTCTGTTTAGAACGCCAACATCTATAGGGAACATGGGCCAGAGAGC

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FIGURE 1104B

ATCTCTGAATCTTTTCATTTCCAAAATACTGTTTTTCAAATGGCTGCTTAAAAATTGCCTGCAAATGAATATGCTAT
ATGATTTGGGCAAAAACACAGCAGAATCAATGAGTAAATTTCTACCAAGAGTCGGGTTTGCCACAGAGATGTGAA
TATTAAACTAACTATTATTTTTTAAAGAATCCTCACATGCCTAGAGCATTCTGACCTCTTCTTGTGTTAGAGTGA
TAACATTTTTTTCCAGACAGATGACAGCAACAAGATAGCTCTACTTTTTTATATGGAAAATAACATTATGTTACTG
ACAAGGTCATTTTTCTACCAGAGACAATTAGAGGACTGGTACTTTTTCTAAGTTGTGTATTACTGAGTCTTGGAGT
CATCTCTGAGAGCAAATGTATGTTCCCTGAAAAGCTAATTTTACACCTCATTTACTGTAGATAACAGAACAACCTC
AATTTTTCAAATTTTTGAAGTTTTATTTATGGGGCTAGAATTCCTATGCATAGAGAATATGTGTAGGGAGCCAGA
AATTCTTTCTATGAAATGCTATACAAATCTTCCATATGTGGGTTCACTATCATCCTTCAGTTTGTAGCACTGGCA
TTTGCAAAGCCAGAACAATAACTGAAGAATGTACAATAAAAACCTAGAATGCTGGGGTCCCACCTTTTTGTTCTTAC
ATTTACTGCTGACCCAGGTATCTTTGGCCCAGTCACTTAACCTCTCTGTGCCTCAGTTTCCTCATCTGCAAAATG
GGGTTAAATGCTTTTTTCATAAGTTTTATTTGCAATTTTAGAACAAGAGGTGCTTAAAGTAGCACAATGTGCTT
TGTAATTATTACAAGTGCTGTATTATTTGACTTTCTTGTGTTGTTGACAAAAAGATTCCCTCATGTAATAAAATA
GTGCTTCAGTTTGGTTAAATTTAAGCACTATAGCACTGAAGCTTGCTTATCAAGCTACTTGGGACATTATTAGCA
ATAAAAATTGAGAGATTCAAAACCAGGATCTTTAATAATCTATAGGAAATAGATCATCTCATGCTATTGAACAAG
ATAGAAGAGTGTGTCATTTCTATGATAAGCATCTCCAGCTCTCTTGATTGCATATGCATGCCATCATACAGAAC
CCCACCTTTTACCACAGGAGAGCCAGTCATTAAACAAAGGCTTGGAGCAAACCTGACAGTATCACATAATTAGCTTG
ATTATCTTTTATTCTGGAGGAAAGTCAGGTGGTATGCCCTACTGGGAAGATACAAAACAGACTATCCTGCTGTAT
TCTTTTTTTTTTTTTTTTTTGGAGATGGAGTCTTGCTCTGTTGCCCATGCTGGAGTGCATTGGCACAAATCTCGGCTCA
TGGCAAGCTCCGCCTCCTGGATTCAAGTGATTCTCCTGCCTCAACCTCCCTAGTAGCTGGGATTACAGGTGCACA
CCACCACACCTGGCTAATTTTTGTATTTTGTAGTAGAGACAGGGTTTCACTATGCTGGTCAGGCTGGTCTCGAACT
CCTGACCTCAAGTGATCTGCCTGCCTCAGCCTCCCAAAGTGCTAGGATTACAGGTGTAAGCCACTGTGCCCGGCC
TCCTGCTGGATTCTTTATTCAACTAGGTAGGTTCAGATTAAATATGAGCCATATGCTCATTAGGCAAGAAATGT
GAAAGAGGGTGCCTCTACAGTGTTGGTGACCCAACACTAGCCAACCTTGAGTCAGAAAATATGGAAGAAGATAAAT
TACTCTCACATATCTAAGACTTTTCCATTTTTCTTCACTTTCTGTTGCAGGGCCCATATGAGTAAATCTATATTC
CGTCTGCTCCAACACACACCTTCCTTCTCTTAATTTTGCTTTCCACCCACCAAGAAATTTGTAAGTCAAAATTT
ATTTCCATGAGTAACTATTTCTAAATGATTGGAAATTTTTGAAAAAGTGGTATGGTTTATATACCTAATCTGCTT
ATCTGCTATAAGTCATATGAGAACAACAGCTAGGATGATTGTCCAAGCAGCTTTAGATGTGTTTAGGGCCAGGCA
AAAGGTTTGCTTGTTTTTTCTTTTTGCTTAAGATCTGGGAGATTAGCAAATTTCTCAAGACTATAGACTGAACGT
TAATTTTTACCAACTCTTGCTCATGAGCCTCAAAATGAATATATCCTTGAATAAAGTATAAATATTTCAATAGAT
ACATCTCTCTATTATCCATTTTACAATTATAAAAGCATCAGCAAAATTGTGGATATGTGTTCCAGTCACTCATG
GATCCATGGAAATGGACCGTGTTTAAATGAATGCTTCCCTTGGATGGGATGTTTCAGCAATAGC

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FIGURE 1105

MSKKGRNKGEKPEALIVALQAANEDLRTKLTDIQIELHQEKSQVSKLEREKTQEAKRIRELEQRKHTVLVTELKA
KLHEEKMKELQAVRENLIKQHEQEMSRTVKVRDGEIQRLKSALCALRDGSSDKVRTALTIEAREEARKLFDTERL
KLLQEIADLKTAKKQVDEALSNMIQADKIKAGDLRSEHQSHQEAIKIKWESERDIRRLMDEIKAKDRIIFSLEK
ELETQTGYVQKLQLQKEALDEQLFLVKEAECNMSSPKREIPGRAGDGSEHCSSPDLRRNQKRIAE LNATIRKLED
RNTLLGDERNELLKRVRETEKQCKP LLERNKCLAKRND ELMVSLQRMEEKLKAVTKENSEMREKITSHPPLKKLK
SLNDLDQANEEQETEF LKLQVIEQQNI IDELTRDREKLIRRRKHRRSSKPIKRPVLDPFIGYDEDSMDSETSSMA
SFRTRTPATPDDDLDES LA AEESELFRQLTKEYQALQRAYALLQEQTGGIIDAEREAKAQEQLQAEVLRYKAK
IEDLEATLAQKGQIEKQEAENHRLQQELQDARDQNELLEFRNLELEERERRSPFNLQIHPFSDGV SALQIYCMK
EGVKDVNIPDLIKQLDILGDNGNLRNEEQVAIIQASTVLSLAEKWIQQIEGAEAALHQKMMELESDMEQFCKIKG
YLEEELD YRKQALDQAYMRIQELEATLYNALQQETVIKFGELLSEKQQEELRTAVEKLRQMLRKSREYDCQILQ
ERMELLQQAHQRI RDLEDKTDIQKRQIKDLEEKFLFLFLFFSLAFILWP

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FIGURE 1106

GGGCAATTTGTTAGTTATCCGCCGCCACCAAGACGCGGCACGGCGCCTGGACCGGAGGGGGCCCCGCGCGGGCGCG
AACTTTGGGCTCGGGCGAGTGGGTGGTGCTCCGCCAGCCCGAGACGGGCGGGCGCGCGGGGCCAATGGGTGCCGC
CTCTTGGCCGCGGGGGGGCCCCGACCCGTGGGTCCCGGCCACCAGCGCCCCAGCCCCGAGGCTCAGAAGCGGCAGG
CGGAGGCGCGGTCCGGGCGCTATGGCCATGCCCGGCGGGTCTCACGCGGCTGCCCCTCGCCCGGCGCGCCTTCGG
TAGGGGGCGCCCCGGGGCCCAGCTGGCCCGGCCATGCTGCTGGAGACACAGGACGCGCTGTACGTGGCGCTGGAGC
TGGTCATCGCCGCGCTTTTCGGTGGCGGGCAACGTGCTGGTGTGCGCCGCGGTGGGCACGGCGAACACTCTGCAGA
CGCCCACCAACTACTTTCCTGGTGTCCCTGGCTGCGGGCCGACGTGGCCGTGGGGCTCTTCGCCATCCCCCTTGCCA
TCACCATCAGCCTGGGCTTCTGCACTGACTTCTACGGCTGCCTCTTCCTCGCCTGCTTCGTGCTGGTGTCTACGC
AGAGCTCCATCTTCAGCCTTCTGGCCGTGGCAGTCGACAGATACCTGGCCATCTGTGTCCCGCTCAGGTATAAAA
GTTTGGTCACGGGGACCCGAGCAAGAGGGGTCATTGCTGTCTCTGGGTCTTCCTTGGCATCGGATTGACTC
CATTCTGGGGTGGAAACAGTAAAGACAGTGCCACCAACAACCTGCACAGAACCCTGGGATGGAACCACGAATGAAA
GCTGCTGCCTTGTGAAGTGTCTCTTGAGAATGTGGTCCCCATGAGCTACATGGTATATTTCAATTTCTTTGGGT
GTGTTCTGCCCCACTGCTTATAATGCTGGTGATCTACATTAAGATCTTCCTGGTGGCCTGCAGGCAGCTTCAGC
GCACTGAGCTGATGGACCACTCGAGGACCACCCTCCAGCGGGAGATCCATGCAGCCAAGTCACTGGCCATGATTG
TGGGGATTTTTGCCCTGTGCTGGTTACCTGTGCATGCTGTTAACTGTGTCACTCTTTTCCAGCCAGCTCAGGGTA
AAAATAAGCCCAAGTGGGCAATGAATATGGCCATTCTTCTGTACATGCCAATTCAGTTGTCAATCCCATTTGTCT
ATGCTTACCGGAACCGAGACTTCCGCTACACTTTTTCACAAAATTATCTCCAGGTATCTTCTCTGCCAAGCAGATG
TCAAGAGTGGGAATGGTCAGGCTGGGGTACAGCCTGCTCTCGGTGTGGGCCTATGATCTAGGCTCTCGCCTCTTC
CAGGAGAAGATACAAATCCACAAGAAACAAAGAGGACACGGCTGGTTTTTCATTGTGAAAGATAGCTACACCTCAC
AAGGAAATGGACTGCCTCTCTTGAGCACTTCCCTGGAGCTACCACGTATCTAGCTAATATGTATGTGTCACTAGT
AGGCTCCAAGGATTGACAAATATATTTATGATCTATTACAGCTGCTTTTACTGTGTGGATTATGCCAACAGCTTGA
ATGGATTCTAACAGACTCTTTTGTTTTTAAAAGTCTGCCTTGTTTATGGTGGAAAATTACTGAAACTATTTTACT
GTGAAACAGTGTGAACATATTATAATGCAAATACTTTTTAACCTAGAGGCAATGGAAAAATAAAAGTTGACTGTAC
TAAAAATG

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FIGURE 1107

MLLETQDALYVALELVIAALSVAGNVLVCAAVGTANTLQTPTNYFLVSLAAADVAVGLFAIPFAITISLGFCTDF
YGCLFLACFVLVLTQSSIFSLAVAVDRYLAICVPLRYKSLVTGTRARGVIAVLWVLAFGIGLTPFLGWNSKDSA
TNNCTEPWDGTTNESCCLVKCLFENVVPMSYMFNFVFGCVLPPLLIMLVIIYIKIFLVACRQLQRTLMDSRTT
LQREIHAAKSLAMIVGIFALCWLPVHAVNCVTLFQPAQGKNKPKWAMNMAILLSHANSVVNPIVYAYRNRDFRYT
FHKIISRYLLCQADVKSNGQAGVQPALGVGL

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FIGURE 1108

ACTCGTCTCTGGTAAAGTCTGAGCAGGACAGGGTGGCTGACTGGCAGATCCAGAGGTTCCTTGGCAGTCCACGC
CAGGCCTTCACCA**ATG**GATCAGTTCCTGAATCAGTGACAGAAAACCTTTGAGTACGATGATTTGGCTGAGGCCTGT
TATATTGGGGACATCGTGGTCTTTGGGACTGTGTTCCCTGTCCATATTCTACTCCGTCATCTTTGCCATTGGCCTG
GTGGGAAATTTGTTGGTAGTGTTTGCCCTCACCAACAGCAAGAAGCCCAAGAGTGTCAACCGACATTTACCTCCTG
AACCTGGCCTTGTCTGATCTGCTGTTTGTAGCCACTTTGCCCTTCTGGACTCACTATTTGATAAATGAAAAGGGC
CTCCACAATGCCATGTGCAAATTCACCTACCGCCTTCTTCTTCATCGGCTTTTTTGGAAAGCATATTTCTTCATCACC
GTCATCAGCATTGATAGGTACCTGGCCATCGTCTGGCCGCCAACTCCATGAACAACCGGACCGTGCAGCATGGC
GTCACCATCAGCCTAGGCGTCTGGGCAGCAGCCATTTTGGTGGCAGCACCCAGTTCATGTTACAAAAGCAGAAA
GAAAATGAATGCCTTGGTGACTACCCCGAGGTCTCCAGGAAATCTGGCCCGTGCTCCGCAATGTGGAAACAAAT
TTTCTTGGCTTCTACTCCCCCTGCTCATTATGAGTTATTGCTACTTCAGAATCATCCAGACGCTGTTTTCTCTGC
AAGAACCACAAGAAAGCCAAAGCCATTAACTGATCCTTCTGGTGGTCATCGTGTTTTTCTCTTCTGGACACCC
TACAACGTTATGATTTTTCTGGAGACGCTTAAGCTCTATGACTTCTTTCCAGTTGTGACATGAGGAAGGATCTG
AGGCTGGCCCTCAGTGTGACTGAGACGGTTGCATTTAGCCATTGTTGCCTGAATCCTCTCATCTATGCATTTGCT
GGGGAGAAGTTCAGAAGATACCTTTACCACCTGTATGGGAAATGCCTGGCTGTCTGTGTGGGCGCTCAGTCCAC
GTTGATTTCTCCTCATCTGAATCACAAAGGAGCAGGCATGGAAGTGTCTGAGCAGCAATTTTACTTACCACACG
AGTGATGGAGATGCATTGCTCCTTCTCT**TGAA**AGGGAATCCCAAAGCCTTGTGTCTACAGAGAACCTGGAGTTCCTG
AACCTGATGCTGACTAGTGAGGAAAGATTTTTGTTGTTATTTCTTACAGGCACAAAATGATGGACCCAATGCACA
CAAAACAACCCTAGAGTGTGTTGAGAATTGTGCTCAAAATTTGAAGAATGAACAAATTGAACTCTTTGAATGAC
AAAGAGTAGACATTTCTCTTACTGCAAATGTCATCAGAACTTTTTGGTTTGCAGATGACAAAAATTCAACTCAGA
CTAGTTTAGTTAAATGAGGGTGGTGAATATTGTTTCATATTGTGGCACAAGCAAAAGGGTGTCTGAGCCCTCAAAG
TGAGGGGAAACCAGGGCCTGAGCCAAGCTAGAATTCCTCTCTCTGACTCTCAAATCTTTTAGTCATTATAGATC
CCCCAGACTTTACATGACACAGCTTTATCACCAGAGAGGGACTGACACCCATGTTTCTCTGGCCCCAAGGGAAAA
TTCCCAGGGAAGTGCTCTGATAGGCCAAGTTGTATCAGGTGCCCATCCCTGGAAGGTGCTGTTATCCATGGGGA
AGGGATATATAAGATGGAAGCTTCCAGTCCAATCTCATGGAGAAGCAGAAATACATATTTCCAAGAAGTTGGATG
GGTGGGTACTATTCTGATTACACAAAACAAATGCCACACATCACCTTACCATGTGCCTGATCCAGCCTCTCCCC
TGATTACACCAGCCTCGTCTTCATTAAGCCCTCTTCCATCATGTCCCCAAACCTGCAAGGGCTCCCCACTGCCTA
CTGCATCGAGTCAAACTCAAATGCTTGGCTTCTCATACGTCCACCATGGGGTCCCTACCAATAGATTCCCCATTG
CCTCCTCCTTCCCCAAGGACTCCACCCATCCTATCAGCCTGTCTCTTCCATATGACCTCATGCATCTCCACCTGC
TCCCAGGCCAGTAAGGGAAATAGAAAAACCCTGCCCCCAAATAAGAAGGGATGGATTCCAACCCCAACTCCAGTA
GCTTGGGACAAATCAAGCTTCAGTTTCTGGTCTGTAGAAGAGGGATAAGGTACCTTTACATAGAGATCATCCT
TTCCAGCATGAGGAACTAGCCACCAACTCTTGCAGGTCTCAACCCTTTTGTCTGCCTCTTAGACTTCTGCTTTCC
ACACCTGCACTGCTGTGCTGTGCCCAAGTTGTGGTGTCTGACAAAGCTTGGAAGAGCCTGCAGGTGCCTTGCCGC
GTGCATAGCCCAGACACAGAAGAGGCTGGTTCTTACGATGGCACCCAGTGAGCACTCCCAAGTCTACAGAGTGAT
AGCCTTCCGTAACCCAACTCTCCTGGACTGCCTTGAATATCCCCTCCCAGTCACCTTGTGCAAGCCCTGCCCAT
CTGGGAAAAATACCCCATCATTCTGCTACTGCCAACCTGGGGAGCCAGGGCTATGGGAGCAGCTTTTTTTTCCCC
CCTAGAAACGTTTGGAACAATGTAAACCTTTAAAGCTCGAAAACAATTGTAATAATGCTAAAGAAAAAGTCATCC
AATCTAACCACATCAATATTGTCAATTCCTGTATTACCCGTCAGACCTTGTTTACACTCTCACATGTTTAGAGT
TGCAATCGTAATGTACAGATGGTTTTATAATCTGATTTGTTTTCTTAACTTAGACCACAAATAGTGCTCGC
TTTCTATGTAGTTTGGTAATTATCATTTTAGAAGACTCTACCAGACTGTGTATTCAATTGAAGTCAGATGTGGTAA
CTGTTAAATGCTGTGTATCTGATAGCTCTTTGGCAGTCTATATGTTTGTATAATGAATGAGAGAATAAGTCATG
TTCCTTCAAGATCATGTACCCCAATTTACTTGCCATTACTCAATTGATAAACATTTAACTTGTTTCCAATGTTTA
GCAAATACATATTTTATAGAACTTC

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FIGURE 1109

MDQFPESVTENFEYDDLAEACYIGDIVVFGTVFLSIFYSVIFAIGLVGNLLVVFALTNSKKPKSVTDIYLLNLAL
SDLLFVATLPFWTHYLINEKGLHNAMCKFTTAFFFIGFFGSIFFITVISIDRYLAIVLAANSMMNNRTVQHGVTTIS
LGVWAAAILVAAPQFMFTKQKENECLGDYPEVLQEIWPVLRNVETNFLGFLLPLLIMSYCYFRIIQTLFSCKNHK
KAKAIKLILLVVIVFFLFWTPYNNMIFLETCLKLYDFFPSCDMRKDLRLALSVTETVAFSHCCLNPLIYAFAGEKF
RRYLYHLYGKCLAVLCGRSVHVDFFSSSESQSRHGSVLSSNFTYHTSDGDALLL

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FIGURE 1110

GGTGTGTGTTCCGGACACATAGAAAGATAACGACGGGAAGAGCGGGGCCCCGCTTTGGGGTCCAGGCAGGTTTGGG
GCCTCCTGTCTGGTGGGAGGAGGCCGAGCGCAGCACCCCTGCTCGTCACTTGGG**ATGG**GAGACCGGCTTTCCCGCA
ATCATGTACCCTGGATCTTTTATTGGGGGCTGGGGAGAAGAGTATCTCAGCTGGGAAGGACCGGGGCTCCCAGAT
TTCGTCTTCCAGCAGCAGCCCCGTGGAGTCTGAAGCAATGCACTGCAGCAACCCCAAGAGTGGAGTTGTGCTGGCT
ACAGTGGCCCGAGGTCCCGATGCTTGTGATGATACTCACCAGAGCCCCGCTGGGCCAGGATCCCCCGCAGAGGACA
GTGCTAGGGCTGCTAACTGCAAATGGGCGAGTACAGGAGGACCTGTGGCCAGGGGATCACAAGAATCAGGTGTTAT
TCTGGATCAGAAAATGCCTTCCCTCCAGCTGGAAAGAAAGCACTCCCTGACTGTGGGGTCCAAGAGCCCCCAAG
CAAGGGTTTGTACATCTACATGGATGAACTAGAGCAGGGGGACAGAGACAGCTGCTCGGTGAGAGAGGGGATGGCA
TTTGAGGATGTGTATGAAGTAGACACCGGCACACTCAAGTCAGACCTGCACTTCCTGCTGGATTTCAACACAGTT
TCCCTATGCTGGTAGATTTCATCTCTCCTCTCCAGTCTGAAGATATATCCAGTCTTGGCACAGATGTGATAAAT
GTGACTGAATATGCTGAAGAAATTTATCAGTACCTTAGGGAAGCTGAAATAAGGCACAGACCCAAAGCACACTAC
ATGAAGAAGCAGCCAGACATCACGGAAGGCATGCGCACGATTCTGGTGGACTGGCTGGTGGAGGTTGGGGAAGAA
TATAAACTTCGAGCAGAGACCCCTGTATCTGGCTGTCAACTTCCTGGACAGGTTCCCTTTCATGTATGTCTGTTCTG
AGAGGGAACTGCAGCTCGTAGGAACAGCAGCTATGCTTTTGGCTTCGAAATATGAAGAGATATATCCTCCTGAA
GTAGACGAGTTTGTCTATATCACCGATGATACATACAAAAACGACAACTGTTAAAAATGGAACACTTGCTTCTG
AAAGTTCTAGCTTTTGTATCTGACAGTACCAACCACCAACCAGTTTCTCCTTCAGTACTTGAGGCGACAAGGAGTG
TGCCTCAGGACTGAGAACCTGGCTAAGTACGTAGCAGAGCTGAGTCTACTTGAAGCAGATCCATTCTTGAAATAT
CTTCCTTCACTGATAGCTGCAGCAGCTTTTTGCTGGCAAATACTGTGAACAAGCACTTTTGGCCAGAAACC
CTTGCTGCATTTACAGGGTATTCATTAAGTGAAATTGTGCCTTGCTGAGTGAGCTTCATAAAGCGTACCTTGAT
ATACCCCATCGACCTCAGCAAGCAATTAGGGAGAAGTACAAGGCTTCAAAGTACCTGTGTGTGTCCCTCATGGAG
CCACCTGCAGTTCTTCTTCTACAA**TAA**GTTTCTGAATGGAAGCACTTCAGAACTTCACCTCCATATCAGAAGTG
CCAATAATCGTCATAGGCTTCTGCACGTTGGATCACTAATGTTGTTTACAATATAGATGACATTTTAAAAATGT
AAATGAATTTAGTTTCCCTTAGACTTTAGTAGTTTGTAAATATAGTCCAACATTTTTTAAACAATAAACTGCTTGT
CTTATGACAAAAAAAAA

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FIGURE 1111

METGFPAIMYPGSFIGGWGEEYLSWEGPGLPDFVFQQQPVSEAMHCSNPKSGVVLATVARGPDACQILTRAPLG
QDPPQRTVLGLLTANGQYRRTCGQGITRIRCYSGSENAFPPAGKKALPDCGVQEPPKQGFDIYMDELEQGDRDSC
SVREGMAFEDVYEVDGTGLKSDLHFLLDFNTVSPMLVDSSLLSQSEDISSLGTDVINVTEYAEIYQYLREAEIR
HRPKAHYMKKQPDITEGMRITILVDWLVEVGEEYKLRAETLYLAVNFLDRFLSCMSVLRGKLQLVGTAAMLLASKY
EEIYPPEVDEFVYITDDTYTKRQLLKMEHLLLKVLAFDLTVPTTNQFLLQYLRRQGV CVRTENLAKYVAELSLLE
ADPFLKYLPSLIAAAAFCLANYTVNKHFWPETLAAFTGYSLSEIVPCLSELHKAYLDIPHRPQQAIREKYKASKY
LCVSLMEPPAVLLLQ

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FIGURE 1112A

GAATTCCGAAAGCAAGGAG**ATG**SCCACCAGGAGAAGCTGCAGTGTCTGAAAGATTTCCACAAGGACATGGTGAA
GCCCTCACCAGGGAAGAGCCCAGGCACGCGGCTGAGGACGAGGCTGAGGGAAAACCTCCGCAGAGGGAGAAGTG
GTCTAGCAAGATCGACTTTGTGCTCTCTGTGGCTGGCGGCTTCGTGGGCTTGGGCAACGTCTGGCGCTTCCCGTA
CCTCTGCTACAAGAATGGTGGAGGTGCGTTTCTCATACCGTATTTTATTTTCTGTTTGGGAGCGGCCTGCCTGT
GTTTTCTTGGAGATCATCATAGGCCAGTACACCTCTGAAGGGGGCATCACCTGCTGGGAAAAGATCTGCCCTT
GTTCTCTGGTATCGGCTATGCCTCCGTTGTAATTGTGTCCCTCCTGAATGTCTACTACATCGTCATCCTGGCCTG
GGCCACATACTACCTGTTCCAGTCCCTCCAGAAGGAGCTGCCCTGGGCACACTGCAACCACAGCTGGAACACACC
TCACTGCATGGAGGACACCATGCGCAAGAACAAGAGTGTCTGGATCACCATCAGCTCCACCAACTTCACCTCCCC
TGTCATCGAGTTCTGGGAGCGCAACGTGCTGAGCTTGTCCCTGGAATCGACCACCCAGGCTCTCTGAAATGGGA
CCTCGCTCTCTGCCTTCTTTTAGTCTGGCTAGTGTGTTTCTTCTGCATCTGCAAGGGCGTCAGGTCCACTGGGAA
GGTCGTCTACTTCACAGCCACTTTTCCATTGCGCATGCTCCTGGTGTCTGCTGGTCCGAGGGCTGACGCTGCCGGG
CGCGGGCCGAGGCATCAAGTTCTATCTGTATCCTGACATACCCGCCTTGAGGACCCACAGGTGTGGATTGACGC
TGGGACTCAGATAFTCTTCTCTTATGCCATCTGCCTGGGGGCTATGACCTCGCTGGGGAGCTACAACAAGTACAA
GTATAACTCGTACAGGGACTGTATGCTGCTGGGATGCCTGAACAGTGGTACCAGTTTGTGTCTGGCTTCGCAAT
TTTTTCCATCCTGGGCTTCATGGCACAAGAGCAAGGGGTGGACATTGCTGATGTGGCTGAGTCAGGTCTGGCCT
GGCCTTCATTGCCTACCCAAAAGCTGTGACAATGATGCGCTGCCACATTTTGGTCCATTCTTTTTTTTTATTAT
GCTTCTCTTGTCTGGACTGGATAGCCAGTTTGTGGAAGTTGAAGGACAGATCACATCCTTGGTTGATCTTTACCC
ATCCTTCCCTAAGGAAGGGTTATCGTCGGGAAATCTTCATCGCCTTCGTGTGTAGCATCAGCTACCTGCTGGGGCT
GACGATGGTGACGGAGGGTGGCATGTATGTGTTTCAGCTCTTTGACTACTATGCAGCTAGCGGTGTATGCCTTTT
GTGGGTTGCATTCTTTGAATGTTTTGTTATTGCCCTGGATATATGGAGGTGATAACCTTTATGATGGTATTGAGGA
CATGATTGGCTATCGGCCCGGCCCTGGATGAAGTACAGCTGGGTGATCACTCCAGTTCCTCTGTGTTGGATGTTT
CATCTTCTCGCTCGTCAAGTACGTACCCCTGACCTACAACAAAACATACGTGTCCCCAACTTGGGCCATTGGGCT
GGGCTGGAGCCTGGCCCTTTTCTCCATGCTCTGCGTTCCCTTGGTCATCGTCATCCGCCTCTGCCAGACTGAGGG
GCCGTTCCCTTGTGAGAGTCAAGTACCTGCTGACCCCAAGGGAACCAACCGCTGGGCTGTGGAGCGCGAGGGAGC
CACACCTTACAACCTCTCGCACCGTCATGAACGGCGCTCTCGTGAAACCGACCCACATCATTGTGGAGACCATGAT
GTGAGCTCTCTCGGGTCGACGGGGCCGGCGGCTTTCTGCTGTTTACTAACATTAGATTACATAGGACCAGGTT
TACAGAGCTTTATATTTGCACTAGGATTTTTTTTTTTTTTTGTAATTGTACAGAAAATGTAATTGTGGGTATGTGT
GCGTGCGTGTGTGTGTGTGTGTGTATCGTGTGTGTGTGTTTTGTTTTGATTTGGGGGATATTTTGTACAAA
AAGAAAACCCACGGGAAGATGTCCGTGGAGAGGCAGAGCTTTCATACTGAATTAGATGTATTTTATGGGAATTTG
GTAAATTTTTCTTTGTATTTTTTTTTTTTACATATAAGTATATACACTTAGAGATTGTACATATACTTTTACCAC
TTGAATTGATCTTCTTGCCAGCAATAGATCTCATTTTCAAAGCAATTCTTCGGTGTGTGTAGCTGGCAGAAAAG
TTCTGTCCAGTAAACGCAGGATGGAATTTTCTTGGGACTCTACACCCATCTTAAGGTGGTATACCTTCCAAATCC
TGGTTAGATGGAAGAAATAGCAGGAGAGAGGACCCATTAGCTGGCAGACCCAGGGGAAGAAAGGAGGGCTGTGA
GGAGATACCTCATTAACCTTGGCTTAGTGAAGAAGAGAGATGCCAAAGGAATGAACCAACCTTACATAAAGGA
GACTGGCTGAAGCTGAATGAGGAGGCCCTATAGCAGAAGTCTGATTCTAAGAGCAGTAGAACTTGTACCAGAAG
CAAAATCCCCTTTTAATTTTGTAGATGGTGAGTGGATAGTCAGTAGACCGTCAGAACCACTGGCCAGAGAGGGAG
CTGCTAGAGATCCAAGAAGGCTGGCAGGAATGAGGCTCACAACTCAGCCTCGCAAGAGGTGGCAGAGGCACAGGA
GGCCACAGTCTTCTTGGGGCATTCCAGGCAGAGAAGGAGCAGAGGCTCTCCCGGCAGGAGCTGGGGTCTCAGGG
CTCAGATGAGTCTGTTGCATTTGAATGGGGTCATAGCAGGTTCTGGTCAATTCCCAAGCAACATCTCAGCATCTC
TTAAAGTTGCCGTGCAGGAATGAAGCATGACATACCTGTTGAGGGACTAGGGGAGTGGTGGGGAGGTGAGTGGACC
AAAGGATATAGGCCCCAGGCATGCAGATGGGCCCCGTGTCGGGGAGGGGTGCTTTCTTTTCTCATCTCCCCACTC
CCCCTCTCAGCCTGGGAGACTCCTGCCAAGCCCTCATTAAGATGCCACCCTGGGCTGCCCTGGCACCTAGCAA
GGCACACCAAGAACAGCTTTTGTAGTCGTATCCTCCACTGGGGAAGTGCTCCCAGTTTCAGAAACAAGGGCAGCCCGT
GGTGTGACCTAGGATATAACAAAGCTCTTCACTTCAAACCCCTGCAATAGCTGGGTTTACAGACATTTACCAC
CTGGGGACCCAAAAGAGAAGGCCTAGGAGAGTTTTCTAGAAGGTTGGGATTGTGAGGGTCTGGCCCCCAGAAC
TGGCTTGATCAAGGGCCTTATGTGGAGCAGAGGTTGTCTCTGAACCAGGAGAGAAGGTACTATACCTTTCAAATC
CCCAGGGCAGACACACCCCCACCCAGCCCCCTATTTGGACCTAAACTGTGCCATTTGAACAGTCACTTCCAAGCTC
AGTCTAAATGAAACCGAAACGTGACCACGCACAAAGGCAGTCACTGCTCGAGGGGTGCAGACCCGAGAATTTTCA

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FIGURE 1112B

CAGCAGGGGCTCTTGGAACCTCTGGAAACCCCTTCTTAAATTTGGGAGGAGGAGTATGCCTTTGGTGTCCCCCTC
CCAAGGGCAATTCTGAACCCCATCTTTGGCAGGCATACATATTTCACTGTTTCCAAAGCTATCTACTCTGCCAAA
CAACACCCAGTCCTATTCCAAACTCTCAACGATTCTATCTTGTTCTGTTTTTCTATGTATTTATGGTTGCCGTT
TGTGCTGATTTGATTTTACTGTTTTTCCCTGATTTTATGGAGTAGCATTGTGACCTGTTTTCCTTTGTCTTAT
ATAACTTTAGTAAACTAACCCTGTCAATGATTGAGGGCAGGTGGCACGTGGGGAAGAGGGCGGAATTC

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FIGURE 1113

MATKEKLQCLKDFHKDMVKPSPGKSPGTRPEDEAEGKPPQREKWSSKIDFVLSVAGGFVGLGNVWRFPYLCYKNG
GGAFLIPYFIFLFGSGLPVFFLEIIIGQYTSEGGITCWEKICPLFSGIGYASVVIVSLLNVYYIVILAWATYYLF
QSFQKELPWAHCNHSWNTPHCMEDTMRKNKSVWITISSTNFTSPVIEFWERNVLSLSPGIDHPGSLKWDLALCLL
LVWLVCFFCICKGVRSTGKVYFTATFPFAMLLVLLVRGLTLPGAGRGIKFYLYPDITRLEDPOVWIDAGTQIFF
SYAICLGAMTSLGSYNKYKYNRYDCMLLGCLNSGTSFVSGFAIFSILGFMAQEQQGVDIADVAESGPGLAFIAYP
KAVTMMPLPTFWSILFFIMLLLLGLDSQFVEVEGQITSLVDLYPSFLRKGYRREIFIAFVCSISYLLGLTMVTEG
GMYVFQQLFDYYAASGVCLLWVAFFECFVIAWIYGGDNLYDGIEDMIGYRPGPWMKYSWVITPVLVCGCFIFSLVK
YVPLTYNKTYVSPTWAIGLGWSSLALSSMLCVPLVIVIRLCQTEGPFLVRVKYLLTPREPNRWAVEREATPYNSR
TVMNGALVKPTHIIVETMM

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FIGURE 1114

AAACCTTGGCCATGGTCACCTTCCTCTTTTCCAATCTCTGTGGCAGTTTTTGGCCCTAATAACCCTGCAGGTTGGTA
CTCAGGACAGTTTTTATAGCTGCAGTGTATGAACATGCTGTCATTTTGCCAAATAAAACAGAAACACCAGTTTCTC
AGGAGGATGCCTTGAATCTCATGAACGAGAAATATAGACATTCTGGAGACAGCGATCAAGCAGGCAGCTGAGCAGG
GTGCTCGAATCATTGTGACTCCAGAAGATGCACTTTATGGATGGAAATTTACCAGGGGAAAAGCTGTTTTCCCTTATC
TGGAGGATATCCCAGACCCTCAGGTGAACTGGATTCCGTGTCAAGACCCCCACAGATTTGGTCAACACACCAGTAC
AAGCAAGACTCAGCTGCCTGGCCAAGGACAACCTCTATCTATGTCTTGGCAAATTTGGGGGACAAAAAGCCATGTA
ATTCCCGTGAATCCACATGTCTCTTAATGGCTACTTTCAATACAATACCAATGTGGTGTATAATACAGAAGGAA
AACTCGTGGCACGTTACCATAAGTACCACCTGTACTCTGAGCCTCAGTTTAAATGTCCCTGAAAAGCCGGAGTTGG
TGACTTTCAACACCGCATTTGGAAGGTTTGGCATTTCACGTGCTTTGATATATTCTTCTATGATCCTGGTGTTA
CCCTGGTGAAAGATTTCCATGTGGACACCATACTGTTTCCACAGCTTGGATGAACGTTTTGCCCTTTTGACAG
CTATTGAATTCCATTTCAGCTTGGGCAATGGGAATGGGAGTTAATCTTCTTGTGGCCAACACACATCATGTCAGCC
TAAATATGACAGGAAGTGGTATTTATGCACCAAATGGTCCCAAAGTGTATCATTATGACATGAAGACAGAGTTGG
GAAAACCTTCTCCTTTTCAGAGGTGGATTACATCCCCCTATCCTCGCTTGCTTACCCAACAGCTGTTAATTGGAATG
CCTACGCCACCACCATCAAACCATTTCCAGTACAGAAAAACACTTTTCAGGGGATTTATTTCCAGGGATGGGTTC
ACTTCACAGAACTTTTTGAAAATGCAGGAAACCTTACAGTCTGTCAAAGGAGCTTTGCTGTCATTTAAGCTACA
GAATGTTACAAAAAGAAGAGAATGAAGTATACGTTCTAGGAGCTTTTACAGGATTACATGGCCGAAGGAGAAGAG
AGTACTGGCAGGTCTGCACAATGCTGAAGTGCAAACTACTAATTTGACAACTTGTGGACGGCCAGTAGAACTG
CTTCTACAAGATTTGAAATGTTCTCCCTCAGTGGCACATTTGGAACAGAGTATGTTTTTCTGAAAGTGCTACTTA
CCGAAATTCATCTGTACCTGGAAAATTTGAGGTGCTGAAAGATGGGCGTTTGGTAAACAAGAATGGATCATCTG
GGCCTATACTAACAGTGTCACTCTTTGGGAGGTGGTACACAAAGGACTCACTTTACAGCTCATGTGGGACCAGCA
ATTCAGCAATAACTTACCTGCTAATATTCATATTATTAATGATCATAGCTTTGCAAAATATTGTAATGTTATAGG
GCGTCTCTTTATCACTCAGCTTCTGCATCATATGCTTGGCTGAATGTGTTTATCGGCTTCCCAAGTTTACTAAGA
AACTTTGAAGGGCTATTTTCAGTAGTATAGACCAGTGAGTCCTAAATATTTTTTCTCATCAATAATTATTTTTTAA
GTATTATGATAATGTTGTCCATTTTTTTGGCTACTCTGAAATGTTGCAGTGTGGAACAATGGAAAGAGCCTGGGT
GTTTGGGTCAGATAAATGAAGATCAAACCTCCAGCTCCAGCCTCATTTGCTTGAGACTTTGTGTGTATGGGGGACT
TGTATGTATGGGAGTGAGGAGTTTCAGGGCCATTGCAAAACATAGCTGTGCCCTTGAAGAGAATAGTAATGATGGG
AATTTAGAGGTTTATGACTGAATTCCTTTGACATTAAAGACTATTTGAATTCAAAAAAAAAAAAAAAAAAAAA
AAAAAAAA

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FIGURE 1115

MVTSSFPISVAVFALITLQVGTQDSFIAAVYEHAVILPNKTETPVSQEDALNLMNENIDILETAIKQAAEQGARI
IVTPEDALYGWKFTRETVPYPYLEDIPDPQVNWIPCQDPHFRFGHTPVQARLSCLAKDNSIYVLANLGDKKPCNSRD
STCPPNGYFQYNTNVVYNTGKLVARYHKYHLYSEPQFNVPEKPELVTFNTAFGRFGIFTCTFDIFFYDPGVTLVK
DFHVDTILFPTAWMNVLPLLTAIEFHSAWAMGMGVNLLVANTHHVSLNMTGSGIYAPNGPKVYHYDMKTELGKLL
LSEVDSHPLSSLAYPTAVNWNAYATTIKPFPVQKNTERGFISRDGFNFTELFENAGNLTVQCQKELCCHLSYRMLQ
KEENEVYVLGAFTGLHGRRRREYWQVCTMLKCKTTNLTTCGRPVETASTRFEMFSLSGTFGTEYVFPPEVLLTEIH
LSPGKFEVLKDGRLVNKNGSSGPILTVSLFGRWYTKDSLYSSCGTSNSAITYLLIFILLMIIALQNIVML

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FIGURE 1116A

GAATTCGGGCGAGCATCATCAAGGCACATAGATTCTCTCTTTGAACAATGCAGCTGCTGCAGGGGATGGGGAAGG
GATGGCACTGGCAATTCAAGACTGCCTTTCTACTTCTTCAGTGCCTCTTTCACCAATATGAAGTTAAAAACCAGG
ATCCTTCAAACCAAAAATGTGGTGGAAAGAAAGAAAACCGTGTCTTTCAGCAGC**ATGCC**ATCGGAAAAGAAAATTA
GCAGTGCAAAATGACTGCATCAGCTTCATGCAAGCTGGCTGTGAGTTGAAGAAAGTCCGGCCAAATTCTCGCATT
ACAACCGTTTTTTTCACTCTGGACACAGACCTTCAAGCTCTTCGCTGGGAACCTTCAAAGAAAGACCTCGAGAAAG
CCAAGCTTGATATTTCTGCCATAAAAGAGATCAGACTGGGGAAAAACACGGAAACATTTACAAACAATGGCCTTG
CTGACCAGATCTGTGAGGACTGTGCCTTTTCCATACTCCACGGGGAAAACATATGAGTCTCTGGACCTAGTTGCCA
ATTACAGCAGATGTGGCAAACATCTGGGTGTCTGGGTACCGTACCTGGTTTCTCGAAGTAAGCAGCCTCTTGATT
TTATGGAGGGCAACCAGAACACACCACGGTTCATGTGGTTGAAAACAGTGTGTTGAAGCAGCAGATGTTGATGGGA
ATGGGATTATGTTGGAAGACACCTCTGTAGAGTTAATAAAACAACCTCAACCCTACTCTGAAGGAAGCCAAGATCA
GGTTAAAGTTTAAAGAAATCCAGAAGAGCAAGGAAAACTAACCACCCGCGTGACCGAAGAGGAATTTTGTGAAG
CTTTTGTGAACCTTGCACCAGGCCAGAAGTGTATTTCTTACTTGTACAGATATCTAAAAACAAAGAATATTTGG
ATGCCAATGATCTCATGCTCTTTTGAAGCTGAGCAAGGAGTCACCCATATCACCGAGGATATATGCTTAGACA
TCATAAGGAGATACGAACCTTTCTGAAGAGGGACGTCAAAAAGGGTTTCTTGCAATTGATGGCTTTACCCAGTATT
TATTGTCATCAGAATGTGACATTTTGTATCTGAGCAAAAAGAGTTGCCCAAGATATGACCCAGCCATTATCTC
ACTACTATATCAATGCCTCTCATAACACCTATCTAATAGAAGACCAGTTCAGGGGGCCAGCTGCATCAATGGGT
ACATTAGAGCTTTGAAAATGGGCTGTGCAAGCGTTGAACTCGATGTAAGTGATGGTTCAGATAATGAACCAATCC
TTTGTAATCGAAATAACATGACAACCCATGTTTCTTTTGAAGTGTATAGAGGTAATAAATAAATTTGCCTTTG
TTGCTTCTGAATACCCACTCATTCTTTGCTTGGGAAATCACTGCTCCTTGCCGCAGCAGAAGGTAATGGCTCAAC
AGATGAAAAAGGTCTTTGGCAATAAACTCTATACTGAAGCACCTTTGCCCTCAGAATCCTACCTCCCATCACCAG
AAAAATTAAAAAGAATGATCATTGTGAAAGGAAAGAAAGTTGCCTTCTGATCCAGATGTGTTAGAAGGAGAAAGTAA
CAGATGAAGATGAAGAAGCTCAAATGTCTCGAAGGATGTCGGTAGATTACAATGGTGAGCAGAAGCAAAATCCGAC
TCTGTAGGGAGCTCTCTGATTTGGTGTCTATTTGTAAATCTGTTCAATACAGGGATTTTGAAGTATCTATGAAAA
GCCAAAACCTATTGGGAAATGTGTTTCAATTTAGTGAAACAGAGGCCAGCCGATTGCAATGAGTACCCAGAGGATT
TTGTTAATTATAATAAGAAGTTCTTATCAAGAATCTATCCAAGTGCCATGAGGATCGATTCCAGTAACTTGAATC
CACAGGACTTTTTGGAATTGTGGCTGTGAGATTGTAGCAATGAATTTTCAAGTCCGGGTCCAATGATGGACCTTC
ACACGGGCTGGTTTTCTTCAAACGGGGGATGTGGTTATGTTCTAAGGCCGTCTATAATGCGAGATGAAGTTTCTT
ACTTCAGCGCAAATACAAAGGGCATTCTACCTGGGGTGTCTCCTCTAGCTCTTCATATCAAGATCATCAGTGGTC
AGAATTTCCCAAAGCCCCAAGGGAGCTTGTGCCAAAGGGGATGTATAGATCCCTATGTTTGTATAGAGATACACG
GAATTCAGCGGATTGTTTCGGAACAAAGAACTAAACTGTACAGCAAACAGTGATAATCCTATTTTTTGTGATAA
CTTTTGAGTTCCAAGTAAACCTACCTGAGCTGGCCATGATCCGTTTTTGTGTTCTGGATGATGACTACATTGGGG
ATGAGTTTATAGGGCAATATACGATACCATTTGAATGTTTGACGCTGGATATCGGCATGTTCCCTGCGTTCTT
TTGTGGGTGACATCATGGAGCACGTAACCCTTTTTGTCCACATAGCAATACTAATCGAAGTGGAGGAGGAAAGG
CACAGAAGCGCAGTCTTTCAGTGAGAATGGGGAAGAAAGTTCGGGAATATACCATGCTCAGGAATATCGGTCTTA
AAACCATTGATGACATCTTTAAATAGCGGTTTATCCATTACGAGAAGCCATAGATATGAGAGAAAATATGCAGA
ATGCAATCGTGTCTATTAAGGAACCTATGTGGACTCCCTCCAATTGCCAGTCTGAAGCAGTGCCTGTAACTCTGT
CATCTCGGCTCATCACCAGTGACAATACTCCTTCAGTCTCACTTGTGATGAAAGACAGCTTTCCTTACCTGGAGC
CTCTGGGTGCAATTCCAGATGTGCAGAAAAAGATGCTGACTGCTTATGATCTGATGATTCAAGAGAGCCGGTTTC
TCATAGAAATGGCGGACACAGTCCAGGAAAAGATTGTACAGTGTGAGAAAGCAGGGATGGAGTTCCATGAAGAAC
TTCATAATTTGGGGGCAAAGAAGGCTTGAAGGGAAGAAAACCTCAACAAAGCAACTGAGAGCTTTGCTTGGAAACA
TTACAGTATTGAAGGGCCAAGGAGATCTGTTGAAGAATGCCAAGAATGAAGCTATAGAAAACATGAAGCAGATCC
AGCTGGCATGCCGTGCTGTGGACTGAGTAAAGCCCCCAGCAGCAGTGTGAGGCCAAGAGCAAGCGCAGCCTGG
AAGCCATAGAGGAGAAGGAAAGTAGTGAGGAGAAATGGGAAGCT**GTGACT**CTGGGCATTATCGACACGTTACCCCA
TCTTATCAAGGACTCTGGTTTTCTCATTCTTGTCTTTCTTTTAAATGTTTTATAAGTTTCAAAAATGGTGCCCT
ATATGGGGTATTGGACATAGATATTTTCACAATGTCAGTATTTTCAAGTGTAGTTAATTTATCTAAATTAAGCCTT
TAGTATCAGTGTTTTAAATTTCTGAGACATGTGTCAACACCCCTGTGTGGATGCCTGTGGAAGAGTGTGTGTGT
GTGTGTGTGTGTGTGTGTGTGTGTGGCAGAGAGAGAGAAAGAGAGAGAGAGAAATCTGTTTAAATCTATTTCT
GTGTTGCATTATTTCATTTAGTGAGTTATTCCTTGATCATTTTGGGACAATTGTTTTAATCTGAAATTTCTAAAGAG

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FIGURE 1116B

CACCTTACTGTAAACCTGTTGCTGTGTTTAAATTTGACTTCTCTGCCTTTGACATTTAATTTAGTGATCTTAGCATAG
CTTATTATTGAAGGAAGCCAAATTTATCAAAGCATAACATGTTTTGGTAGATTAAATATAGATTAGAAAAATTCCT
AAGAATCAGAGTAGAAATAAAAGTGAATGAAAGATTAAACAGATGATGAGAATTTCTAAAAAGATTAGCAAGGTC
ATTTCTTCAGTCAGAAAACTTTAAAAAATATTTATTAAATAAAATCAATTTTATAGGAAGTTTTCTGTAGTCATTT
ACTAAACATATGATTTCACTAGAAAAGCTGATCATAAGTGAATTTATACCTACCTGTGTGGCTACTCTGAAACAC
ACTGAAAGCTCTGTTGCAATTAGGATTTGATGTGACATAATATTGTTGTATAATTTGAGATTTGTAGGAAGGTC
TCATTCTTCCAAGCTGAGAGCTAGCACTCATTTTCTATAACAGATATGGCAGCTTAGAGGTGTTGGCTTTGTTT
GGATGTAATTTTAGGGGTACTAAAATTTAAATTTAAAGATAATTGTTCAACAATATCATATCATCACATTGAGC
TGATATAAATTCTGTGGGTCCGATAATATCTTTGTGATAATTTAAGAGCTAACCAGTTACCACACATCTATGATA
TAACCCTAACACACACAGAAAGCATAACATGCAAAAAGAAATGACTAATTAGGGTACATTTATAATTGCATCTAGG
TAATTTTTACCCTAATGTCTTCATAAAGTACTTGAGTGTAATGTTTGTACCTCCAACAGAACTAAATGTTCTAT
GGTTATGAAAGAATATATTTATTTAAAGCATTGCTTTTATTTTGAAAAGCTTCTTAATTAATTTGATTAAACAAAT
ATGCTAATTTGGGGAAACCTAGAGAAGATAATTGTTGAAATTTGCAAATATAAACATCTCCTAT

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FIGURE 1117

MPSEKKISSANDCISFMQAGCELKKVRPNSRIYNRFFTLDTDLQALRWEPSKKDLEKAKLDISAIKEIRLGKNTE
TFTNNGLADQICEDCAFSILHGENYESLDLVANSADVANIWVSGRLYLVSRSKQPLDFMEGNQNTPRFMWLKTVF
EAADVVDGNGIMLEDTSVELIKQLNPTLKEAKIRLKFKEIQKSKEKLTTTRVTEEEFCEAFCELCTRPEVYFLLVQI
SKNKEYLDANDLMLFLEAEQGVTHITEDICLDIIRRYELSEEGRQKGFLAIDGFTQYLLSSECDIFDPEQKKVAQ
DMTQPLSHYYINASHNTYLIEDQFRGPADINGYIRALKMGCRSVELDVSDGSDNEPILCNRRNMTHVSFRSVIE
VINKFAFVASEYPLILCLGNHCSLPQQKVMAQQMKKVFGNKLYTEAPLPSESYLP SPEKLKRMIIVKGKKLPSDP
DVLEGEVTDDEEAAQMSRRMSVDYNGEQKQIRLCRELSDLVSICKSVQYRDFELSMKSQNYWEMCSFSETEASRI
ANEYPEDFVNYNKKFLSRIYPSAMRIDSSNLNPQDFWNCGCQIVAMNFQTPGPMMDLHTGWFLQNGGCGYVLRPS
IMRDEVSYFSANTKGILPGVSPLALHIKIISGQNFPPKPGACAKGDVIDPYVCIEIHGIPADCSEQRKTKTVQQNS
DNPIFDETFEFQVNLPELAMIRFVVLDDDYIGDEFIGQYTIPFECLQPGYRHVPLRSFVGDIMEHVTLEFVHIAIT
NRSGGGAQKRSLSVRMGKKVREYTMRLNIGLKTIDDFKIAVHPLREAIMRENMQNAIVSIKELCGLPPIASL
KQCLLTSSRLITSDNTPSVSLVMKDSFPYLEPLGAIPDVQKKMLTAYDLMIQESRFLIEMADTVQEKIVQCQKA
GMEFHHEELHNLGAKEGLKGRKLNKATESFAWNITVLKGQGDLLKNAKNEAIENMKQIQIQLACLSGLSKAPSSSAE
AKSKRSLEAIEEKESSEENGKL

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FIGURE 1118

GGCGGTCCCCTGTTCTCCCCGCTCAGGTGCGGCGCTGTGGCAGGAAGCCACCCCCTCGGTTCGGCCGGGTGCGCGGG
GCTGTTGCGCCATCCGCTCCGGCTTTTCGTAACCGCACCCCTGGGACGGCCCAGAGACGCTCCAGCGCGAGTTCCCTC
AAATGTTTTCTGCGTTGCCAGGACCGTCCGCCGCTCTGAGTCATGTGCGAGTGGGAAGTCGCACTGACACTGAG
CCGGGCCAGAGGGAGAGGAGCCGAGCGCGGCGCGGGGCCGAGGGACTCGCAGTGTGTGTAGAGAGCCGGGGCTCCT
GCGGATGGGGGCTGCCCCCGGGGCTGAGCCCGCTGCCCGCCACCGCCCCGCCCCGCCCCCTGCCACCCCTGCC
GCCCCGTTCCCATTAGCCTGTCCGCCTCTGCGGGACCATGGAGTGGTAGCCGAGGAGGAAGCATGCTGGCCGTCG
GCTGCGCGCTGCTGGCTGCCCTGCTGGCCGCGCCGGGAGCGGCGCTGGCCCCAAGGCGCTGCCCTGCGCAGGAGG
TGGCAAGAGGCGTGTGACCAGTCTGCCAGGAGACAGCGTGACTCTGACCTGCCCGGGGGTAGAGCCGGAAGACA
ATGCCACTGTTCACTGGGTGCTCAGGAAGCCGGCTGCAGGCTCCACCCCAGCAGATGGGCTGGCATGGGAAGGA
GGCTGCTGCTGAGGTGCGGTGCAGCTCCACGACTCTGGAACTATTTCATGCTACCGGGCCGGCCGCCAGCTGGGA
CTGTGCACTTGCTGGTGGATGTTCCCCCGGAGGAGCCCCAGCTCTCCTGCTTCCGGAAGAGCCCCCTCAGCAATG
TTGTTTGTGAGTGGGGTCTCGGAGCACCCCATCCCTGACGACAAAGGCTGTGCTCTTGTTGAGGAAGTTTCAGA
ACAGTCCGGCCGAAGACTTCCAGGAGCCGTGCCAGTATTCCCAGGAGTCCAGAAGTTCTCCTGCCAGTTAGCAG
TCCCGGAGGGAGACAGCTCTTTCTACATAGTGTCCATGTGCGTCGCCAGTAGTGTGGGAGCAAGTTTCAGCAAAA
CTCAAACCTTTTCAGGGTTGTGGAATCTTGACGCTGATCCGCCCTGCCAACATCACAGTCACTGCCGTGGCCAGAA
ACCCCCGCTGGCTCAGTGTACCTGGCAAGACCCCCACTCCTGGAACCTCATCTTTCTACAGACTACGGTTTGAGC
TCAGATATCGGGCTGAACGGTCAAAGACATTCAACAATGGATGGTCAAGGACCTCCAGCATCACTGTGTATCC
ACGACGCTGGAGCGGCCTGAGGCACGTGGTGCAGCTTCGTGCCAGGAGGAGTTCGGGCAAGGCGAGTGGAGCG
AGTGGAGCCCCGAGGCCATGGGCACGCCTTGACAGAAATCCAGGAGTCTCCAGCTGAGAACGAGGTGTCCACCC
CCATGCAGGCACCTTACTACTAATAAAGACGATGATAATATTCTCTTCAGAGATTCTGCAAATGCGACAAGCCTCC
CAGTGCAGAGATTCTTCTTCAGTACCACTGCCCCACATTCTGGTTGCTGGAGGGAGCCTGGCCTTCGGAACGCTCC
TCTGCATTGCCATTGTTCTGAGGTTCAAGAAGACGTGGAAGCTGCGGGCTCTGAAGGAAGGCAAGACAAGCATGC
ATCCGCCGTACTCTTTGGGGCAGCTGGTCCCGGAGAGGCCTCGACCCACCCCAGTGCTTGTTCTCTCATCTCCC
CACCGGTGTCCCCCAGCAGCCTGGGGTCTGACAATACCTCGAGCCACAACCGACCAGATGCCAGGGACCCACGGA
GCCCTTATGACATCAGCAATACAGACTACTTCTTCCCCAGATAGCTGGCTGGGTGGCACCAGCAGCCTGGACCCT
GTGGATGACAAAACACAAACGGGCTCAGCAAAAGATGCTTCTCACTGCCATGCCAGCTTATCTCAGGGGTGTGCG
GCCTTTGGCTTCACGGAAGAGCCTTGCGGAAGGTTCTACGCCAGGGGAAAATCAGCCTGTCTCAGCTGTTTCAGCT
GGTTGAGGTTTCAAACCTCCCTTTCCAAATGCCCAGCTTAAAGGGGTTAGAGTGAACCTGGGGCCACTGTGAAGAG
AACCATATCAAGACTCTTTGGACACTCACACGGACACTCAAAAGCTGGGCAGGTTGGTGGGGGCTCGGTGTGGA
GAAGCGGCTGGCAGCCCACCCCTCAACACCTCTGCACAAGCTGCACCCTCAGGCAGGTGGGATGGATTTCCAGCC
AAAGCCTCCTCCAGCCGCCATGCTCCTGGCCCACTGCATCGTTTCATCTTCCAACCTCAAACCTTTAAACCCCAAG
TGCCCTTAGCAAATTCTGTTTTTCTAGGCCTGGGGACGGCTTTTACTTAAACGCCAAGGCCTGGGGGAAGAAGCT
CTCTCCTCCCTTTCTTCCCTACAGTTCAAAAACAGCTGAGGGTGAGTGGGTGAATAATACAGTATGTCAGGGCCT
GGTCGTTTTCAACAGAATTATAATTAGTTCCCTCATTAGCAGTTTTGCCTAAATGTGAATGATGATCCTAGGCATT
TGCTGAATACAGAGGCAACTGCATTGGCTTTGGGTTGCAGGACCTCAGGTGAGAAGCAGAGGAAGGAGAGGAGAG
GGGCACAGGGTCTCTACCATCCCCTGTAGAGTGGGAGCTGAGTGGGGGATCACAGCCTCTGAAAACCAATGTTCT
CTCTTCTCCACCTCCCAAAAGGAGAGCTAGCAGCAGGGAGGGCTTCTGCCATTTCTGAGATCAAAACGGTTTTA
CTGCAGCTTTGTTTGTGTGCTGAGCTGAACCTGGGTAACTAGGGGAAGATAATATTAAGGAAGACAATGTGAAAAGAA
AAATGAGCCTGGCAAGAATGCGTTTAAACTTGGTTTTTAAAAAACTGCTGACTGTTTTCTCTTGAGAGGGTGGAA
TATCCAATATTTCGCTGTGTGCTAGCATAGAAGTAACCTTACTTAGGTGTGGGGGAAGCACCATAACTTTGTTTAGCCC
AAAACCAAGTCAAGTGAAAAAGGAGGAAGAGAAAAAATATTTTCTGCCAGGCATGGAGGCCCACGCACTTCGGG
AGGTCGAGGCAGGAGGATCACTTGAGTCCAGAAGTTTGAGATCAGCCTGGGCAATGTGATAAAACCCCATCTCTA
CAAAAAGCATAAAAATTAGCCAAGTGTGGTAGAGTGTGCCTGAAGTCCCAGATACTTGGGGGGCTGAGGTGGGAG
GATCTCTTGAGCCTGGGAGGTCAAGGCTGCAGTGAGCCGAGATTGCACCACTGCACTCCAGCCTGGGGTGACAGA
GCAAGTGAGACCCTGTCTC

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FIGURE 1119

MLAVGCALLAALLAAPGAALAPRRCPAQEVARGVLTSIPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSHPSRWA
GMGRLLLLRSVQLHDSGNYSCYRAGRPAAGTVHLLVDVPPEEPQLSCFRKSPLSNVCEWGPRSTPSLTTKAVLLV
RKFQNSPAEDFQEPQCYSQESQKFSCQLAVPEGDSSFYIVSMCVASSVGSKFSKTQTFQGCILQPDPPANITVT
AVARNPRWLSVTWQDPHSWNSSFYRLRFELRYRAERSKTFTTWMVKDLQHHCVIHDAWSGLRHVVQLRAQEEFGQ
GEWSEWSPEAMGTPWTESRSPPAENEVSTPMQALTNNKDDDNILFRDSANATSLPVQDSSSVPLPTFLVAGGSLA
FGTLLCIAIVLRFKKTWKLRLALKEGKTSMHPPYSLGQLVPERPRPTPVLVPLISPPVSPSSLGSDNTSSSHNRPA
RDRSPYDISNTDYFFPR

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FIGURE 1120

CCACGCGTCCGTGCTTTTCCACAGAAGGTTAGACCCTGAAAGAGATGGCTCAGCACCACTATGGATCTTGCTCC
TTTGCCCTGCAAACCTGGCCGGAAGCAGCTGGAAAAGACTCAGAAATCTTCACAGTGAATGGGATTCTGGGAGAGT
CAGTCACCTTTCCCTGTAAATATCCAAGAACCACGGCAAGTTAAATCATTGCTTGGAATTCTAAAACATCTGTTG
CTTATGTAACACCAGGAGACTCAGAAACAGCACCCGTAGTTACTGTGACCCACAGAAATTATTATGAACGGATAC
ATGCCTTAGGTCCGAACACTACAATCTGGTCATTAGCGATCTGAGGATGGAAGACGCAGGAGACTACAAAGCAGACA
TAAATACACAGGCTGATCCCTACACCACCACCAAGCGCTACAACCTGCAAATCTATCGTCGGCTTGGAACCAA
AAATTACACAGAGTTTAATGGCATCTGTGAACAGCACCTGTAATGTCACACTGACATGCTCTGTAGAGAAAGAAG
AAAAGAATGTGACATACAATTGGAGTCCCCTGGGAGAAGAGGGTAATGTCTTCAAATCTTCAGACTCCTGAGG
ACCAAGAGCTGACTTACACGTGTACAGCCAGAACCTGTGAGCAACAATCTGACTCCATCTCTGCCCCGGCAGC
TCTGTGCAGACATCGCAATGGGCTTCCGTACTCACCACACCGGGTTGCTGAGCGTGTGGCTATGTTCTTTCTGC
TTGTTCTCATTCTGTCTTCAGTGTGTTTTGTTCCGTTTGTTCAGAGAAGACAAGATGCTGCCTCAAAGAAAACCA
TATACACATATATCATGGCTTCAAGGAACACCCAGCCAGCAGAGTCCAGAATCTATGATGAAATCCTGCAGTCCA
AGGTGCTTCCCTCCAAGGAAGAGCCAGTGAACACAGTTTATTCCGAAGTGCAGTTTGTGATAAGATGGGGAAAG
CCAGCACACAGGACAGTAAACCTCCTGGGACTTCAAGCTATGAAATTGTGATCTAGGCTGCTGGGCTGAATTCTC
CCTCTGGAAACTGAGTTACAACCACCAATACTGGCAGGTTCCCTGGATCCAGATCTTCTCTGCCCAACTCTTACT
GGGAGATTGCAAACCTGCCACATCTCAGCCTGTAAGCAAAGCAGGAAACCTTCTGCTGGGCATAGCTTGTGCCTAA
ATGGACAAATGGATGCATACCCCTTCTGAAATGACTCCCTTCTGAATGAATGACAAAGCAGGTTACCTAGTATAG
TTTTCCCAAACCTTCTTCCCATCATAGCACATGTAGAAAATAATATTTTTATGGCACACTGGGATAAACAAGCAAG
ATTGCTCACTTCTGGAAGCTGCATATGACTAGAGGCCTCTTGTGACTGGAGGTAACAACCCCTGCCCAGTAACTGT
GGGAGAAGGGGATCAATATTTTGCACACCTGTAATAGGCCATGGCACACCAGCCAAGATGCTCTGCTCACAGTCA
GTATGTGTGAAGATCCCTGGTGCCTGGCCTTACCACGCATCTTGAGCAAATTAGGAAAATGTACCCTTCGCTTG
AGGCAGATGCAGCCCTTCCCCGAGTGCATGGCTTGGAGAGCAGAATGTGGGCTGCATATAAGCACACTCATCCC
TTTGTCTGGGAATCTTTGTGCAGGGCATAACAGGCTTAGTAAGTCCAAACACAGATGACAGTGTGTGGGTCT
CTGTCAGAGTTGTGGCTCTCAGCCATGTAGACACACTCTCCAAATGGAGTGTGGAAAATGTTCTTTCTGCAGGG
TCTAGAGACTGCTGGGACACTTTTTCTTGGAGTGCTACTTCAGAAGCCTTATAGGATTTTCTTTCTGGCCAAGATT
TCCTTCTGTATCACTCCAAGCAGCCTCAGCAGAAGAAGCAGCCATGCCCAGTATTCCCCTCTCCAAAAGGAACT
GACCAGCTTATATTTCTCACACTTCTGGGGAACCTGGGTATAATCCAACCATCAAATAGAAGACCTTGCAAGAAG
CAGAGTCATTCTCCAGAAGGAACCTGGGAGATGATGGTGCAGATGATGAACTGGGTTTCATCCAGTTCCAAAGA
CTCAGAGAACTAGAGTTTAAGCTGAGGCAGAGTGCCGCCACCCTGGCATGCCCCACAAACAGATCACCAGCCAGC
TTACACAGGCATTAACCTCCTCAATGAGGAAGAATCATTCACAACCTGAGCAAGACATTATATGATCATTTAAG
GAAGTGTTTCCCTTATGTGTTAGCAAGTATAATCGGCTAACTCCTAAATCCCAATGAATAGTCTAGGCTGGACA
GCAATGGGCTGCAATTAGGCAGATAAAGACATCAGTCCCAGTAAATGAATCCATAGACTCATCTAGCACCAACTA
CCATTAGCACTATGTTAGGAGCTGCAAGGCCCAAAGTAGAAGATGTGCATAATGTCTGCTCTTGTGTAGCTCAG
GAGACAATTCCAGCACAGACACTACAGTTAACGCTGAACTGCAGCTGCAAGTAATAGCATGAACAGTCAGAAAAA
TACCTTATGAGGGGGCAGGGCTGAAGCTGGGCCTTGAAGGATGGATGAAATTTGGATAGAGAATGAGGAAGACAG
AGGGCCTCCAAGTGAGAGAAGCATGAAAAATGAGCAGGGGCTGGATCAGTGGGGTGTATTAGAGCACCTCTCC
AGATGCACCATGCATGCTCACAGTCCCTTGCTATGTGTGGCAGAGTGTCCCAGCCAGATGTGTGCCCCACCCC
ATGTCCATTTACATGTCCTTCAATGCCCACCTCAAAGGTACCTCTTCTGTAAAGCTTTCCCTGGTATCAGGAAT
CAAAATTAATCAGGGATCTTTTACACTGCTGTTTTTCTCTTGGTCTTCTATCACTAAAACCTCATCTCATT
CAGCCTTACAGCATAACTAATTATTTGTTTTCTCTACTACATTGTACATGTGGGAATTACAGATAAACGGAAGCC
GGCTGGGGTGGTGGCTCACGCCTGTAACCCCAACACTTTGGGAGGCCAAGGCAGGCGGATCACCTGAGGTCAGGA
GTTTCGAGATTAGTCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACGAAATTAGCCAGGTGTGGTGGCA
CACATCTGTAGTCCCAGCTACTCTGGAGGCTGAGACAGGAGAATCGCTTGAACCCAGGAAGTGGAGGTTGCAGTG
AGCTGAGATCACACCACTGCACTCCAGCCTGGGAGAGAGAGAGTGTGCTCCATCTCAAAAAAAAAAAAAAAAAA

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FIGURE 1121

MAQHHLWILLCLQWPEAAGKDSEIFTVNGILGESVTFPVNIQEPRQVKIIAWTSKTSVAYVTPGDSETAPVVT
VTHRNYYERIHAGPNYNLVISDLRMEADAGDYKADINTQADPYTTTKRYNLQIYRRLGKPKITQSLMASVNSTCN
VTLTCSVEKEEKNVTYNWSPLGEEGNVLQIFQTPEDQELTYTCTAQNPVSNNSDSISARQLCADIAMGFRTHHTG
LLSVLAMFFLLVLILSSVFLFRLFKRRQDAASKKTIYTYIMASRNTQPAESRIYDEILQSKVLPSKEEPVNTVYS
EVQFADKMGKASTQDSKPPGTSSYEIVI